CD RECEIVER

# KDC-MP5029
# KDC-W5031/W5031Y
# KDC-W531Y

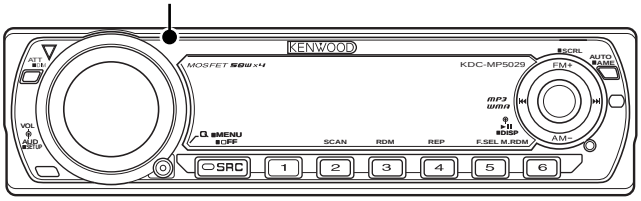
# SERVICE MANUAL

KENWOOD

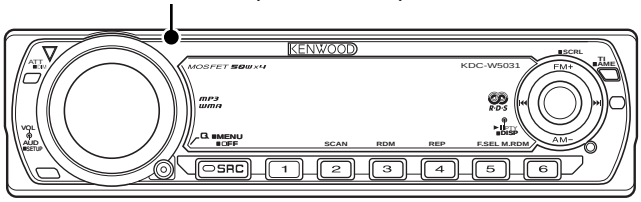
Kenwood Corporation


B53-0247-00 (N) 1233

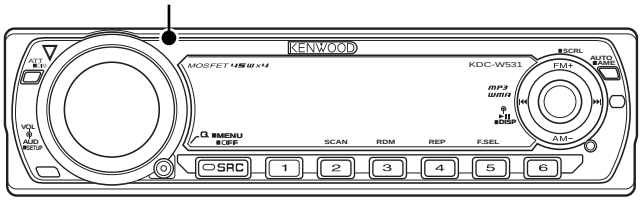
PANEL ASSY
KDC-MP5029 (A64-3484-12)




PANEL ASSY
KDC-W5031/Y (A64-3485-02)



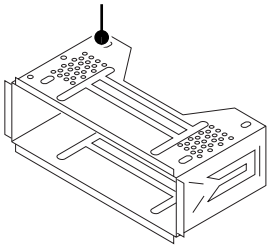

PANEL ASSY
KDC-W531Y (A64-3488-02)



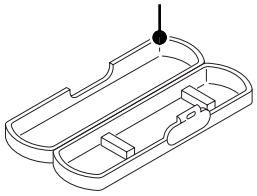

SPARE TDF PANEL

| MAIN UNIT NAME | TDF PARTS No. | TDF NAME |
|---|---|---|
| KDC-MP5029 | Y33-2150-64 | TDF-MP5029 |
| KDC-W5031/Y | Y33-2150-65 | TDF-W5031 |
| KDC-W531Y | Y33-2150-66 | TDF-W531Y |

MOUNTING HARDWARE ASSY
(J22-0011-03)



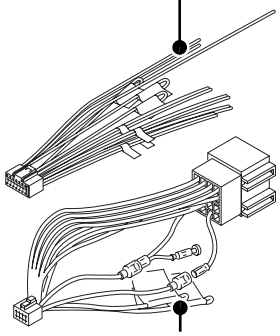
PLASTIC CABINET ASSY
(A02-2743-03)



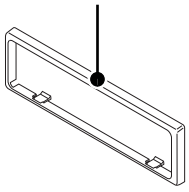
* REMOTE CONTROLLER ASSY (RC-517)
(A70-2069-05)

BATTERY
(Not supplied)

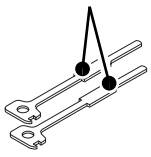
* DC CORD
(E30-6415-15)



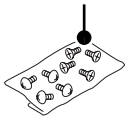
ESCUTCHEON
(B07-3122-01)



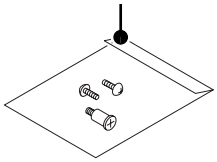
LEVER
(D10-4589-04) x2



* SCREW SET
(N99-1757-05)



SCREW SET
(N99-1763-05)



* DC CORD
(E30-6413-05)

* ANTENNA ADAPTOR
(T90-0523-05)

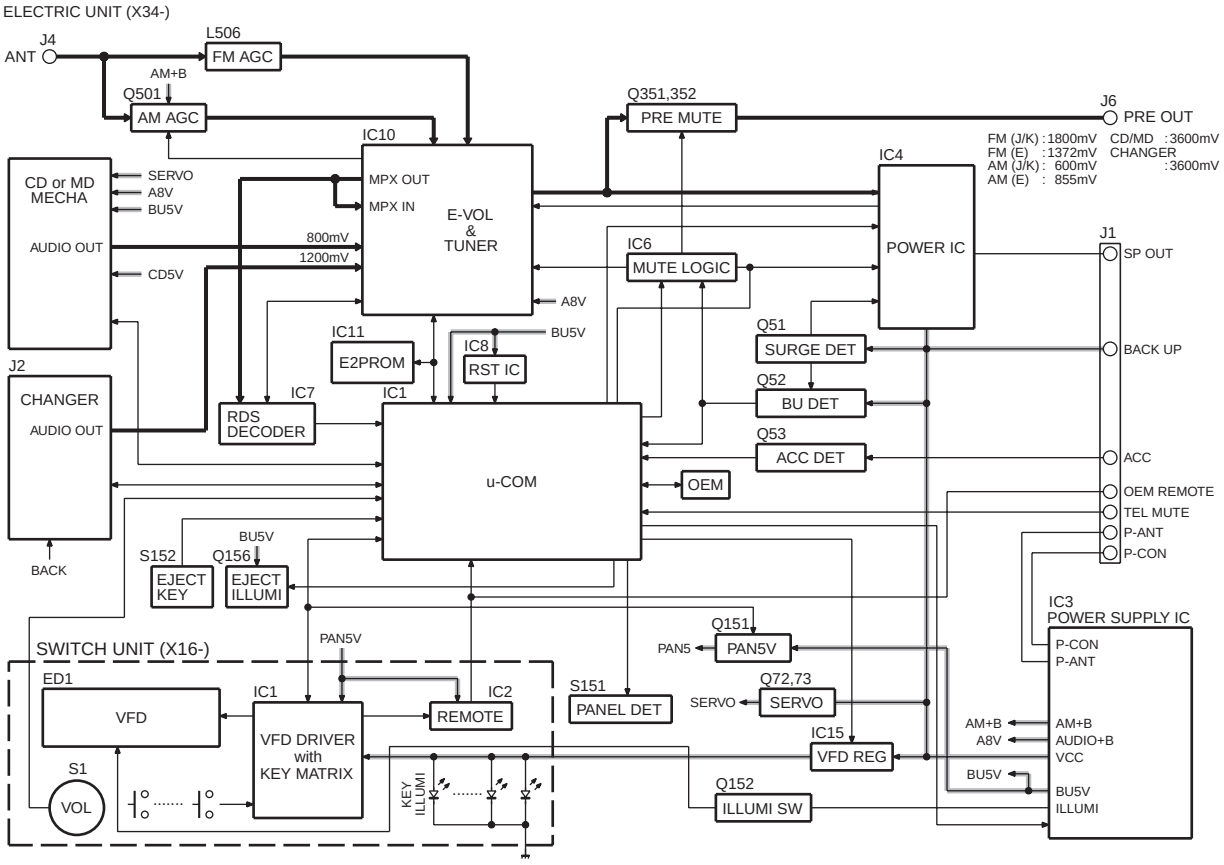
MOUNTING HARDWARE (L)
(J22-0258-04)

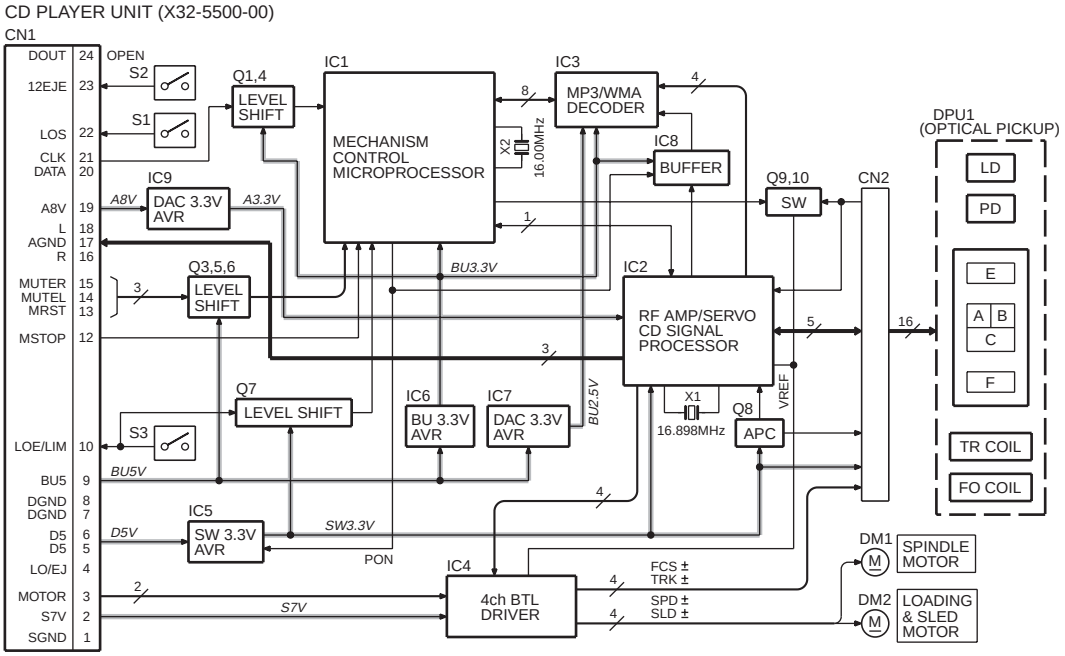
MOUNTING HARDWARE (R)
(J22-0259-04)

* Depends on the model. Refer to the parts list.

This product uses Lead Free solder.

# BLOCK DIAGRAM



# COMPONENTS DESCRIPTION

## ● ELECTRIC UNIT (X34-339x-xx)

| Ref. No. | Application / Function | Operation / Condition |
|---|---|---|
| IC1 | SYSTEM μ-COM | System control. |
| IC3 | POWER SUPPLY | DC5V x 1, 7.8V x 1, 8.0V x 1, 10.2V, P-CON, P-ANT output. |
| IC4 | POWER IC | Signal amplifier. |
| IC6 | MUTE LOGIC | Mute action control. |
| IC7 | RDS DECODER | RDS decode. |
| IC8 | RESET IC | “L” when detection voltage is below 3.6V. |
| IC9 | MECHA+B | Output voltage 5V for MP3/WMA mecha. |
| IC10 | E-VOL & TUNER | E-vol, tuner, stereo decode. |
| IC11 | E2PROM | Save & load for tuner adjustment data. |
| IC15 | LED & VFD+B | Output voltage 11.25V for LED and VFD. |
| Q51 | SERGE DET | “ON” when the base goes “H”. |
| Q52 | BU DET | “ON” when the base goes “H” during BU is applied. |
| Q53 | ACC DET | “ON” when the base goes “H” during ACC is applied. |
| Q54 | BU5V SW | “ON” when the base goes “L”. |
| Q71 | SERVO+B CONTROL SW | “ON” when the base goes “H”. |
| Q72 | SERVO+B AVR | Output voltage is 7.5V. |
| Q73 | SERVO+B AVR | Output voltage is 7.5V. |
| Q74 | IC3 CONTROL SW | “ON” when the base goes “H”. Output voltage is 10.2V. |
| Q91 | IC9 CONTROL SW | “ON” when the base goes “H”. |
| Q151 | PANEL 5V SW | “ON” when the base goes “L”. |
| Q152 | FL+B SW | “ON” when the base goes “L”. |
| Q153 | FL+B SW | “ON” when the base goes “H”. |
| Q156 | EJECT ILLUMI SW | “ON” when the base goes “H”. |
| Q252 | IC4 STBY SW | “ON” when the base goes “L”. |
| Q330 | Q351/Q352 MUTE DRIVER | “ON” when the base goes “L”. |
| Q351 | Lch PREOUT MUTE SW | Audio preout is muted when the base goes “H”. |
| Q352 | Rch PREOUT MUTE SW | Audio preout is muted when the base goes “H”. |
| Q501 | AM RF AMPLIFIER | Adjusts for Gain. |

## ● CD PLAYER UNIT (X32-5500-00)

| Ref. No. | Application / Function | Operation / Condition |
|---|---|---|
| IC1 | MECHANISM CONTROL MICROPROCESSOR | Focusing, tracking, sled and spindle servo processing. Automatic adjustment (Focusing, tracking, gain, offset and balance) operations. Digital signal processing (DSP, PLL, sub-codes, CIRC error correction, audio data interpolation) operations, and microcomputer function. |
| IC2 | RF AMP/SERVO CD SIGNAL PROCESSOR | Generation of RF signal based on the signals from the APC circuit and pickup, and generation of servo error (Focusing error and tracking error) signals. Detection of dropout, anti-shock, track crossing and off-track conditions, included gain control function during CD-RW. |

# COMPONENTS DESCRIPTION

| Ref. No. | Application / Function | Operation / Condition |
|---|---|---|
| IC3 | MP3/WMA DECODER | |
| IC4 | 4ch BTL DRIVER | Focusing coil, tracking coil, spindle motor and sled motor driver, disc loading and eject operation. |
| IC5 | SW 3.3V AVR | |
| IC6 | BU 3.3V AVR | 3.3V power supply for back-up. |
| IC7 | BU 2.5V AVR | 2.5V power supply for back-up. |
| IC8 | SELECTOR (SERIAL DATA) | Serial audio data switch. |
| IC9 | DAC 3.3V AVR | 3.3V power supply for IC2. |
| Q1 | LEVEL SHIFT | 3.3V to 5.0V. |
| Q3~7 | LEVEL SHIFT | 3.3V to 5.0V. |
| Q8 | AUTOMATIC POWER CONTROL | LD driver. |
| Q9,10 | SWITCH | Switch for anticipation sub-beam delay. |

## ● SWITCH UNIT (X16-291x-xx)

| Ref. No. | Application / Function | Operation / Condition |
|---|---|---|
| IC1 | VFD DRIVER | |
| IC2 | REMOTE CONTROL | |
| Q4 | SW 5V | The power supply of IC2 turns on when Q4's base goes "L". |
| Q10 | RED LED SW | RED LED turns on when Q10's base goes "H". |
| Q11 | GREEN LED SW | GREEN LED turns on when Q11's base goes "H". |

## ● DAUGHTER UNIT (X89-2690-10)

| Ref. No. | Application / Function | Operation / Condition |
|---|---|---|
| Q221, 222 | 2-PREOUT MUTE | "ON" when the base goes "H". |
| Q225 | 2-PREOUT MUTE | "ON" when the base goes "H". |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

## ● SYSTEM μ-COM : IC1 on X34- (ELECTRIC UNIT)

| Pin No. | Pin Name | I/O | Application | Processing Operation |
|---|---|---|---|---|
| 1 | DCERR | I | DC offset detection input | |
| 2 | LINE MUTE | I | Phone detection | TEL MUTE : Below 1V |
| 3 | ROTARY CW | I | Rotary encoder input | |
| 4 | AVSS | - | | |
| 5 | TUN TYPE1 | I | E-VOL setting switch | Refer to "TUN TYPE" on the TRUTH TABLE |
| 6 | TUN TYPE2 | I | E-VOL setting switch | Refer to "TUN TYPE" on the TRUTH TABLE |
| 7 | AVREF1 | - | | |
| 8 | VFD DATAF | I | Data input from FVD driver | |
| 9 | VFD DATAS | O | Data output to FVD driver | |
| 10 | VFD CLK | O | Clock output to FVD driver | |
| 11 | $\overline{\text{VFD RST}}$ | O | Reset output to FVD driver | Display OFF, Key reset, Panel opened : L<br>Display ON, Key scan : H |
| 12 | VFD CE | O | Chip enable output to VFD driver | |
| 13 | ROTARY CCW | I | Rotary encoder input | |
| 14 | $\overline{\text{FLIP DET}}$ | I | Panel detection | Panel released : H, Panel ON : L |
| 15 | PWIC BEEP | O | Beep output | |
| 16 | LX DATA S | I | Data from slave unit | |
| 17 | LX DATA M | O | Data to slave unit | |
| 18 | LX CLK | I/O | LX-BUS clock | |
| 19 | RDS AFSL | O | Tuner RDS mute output | Refer to "RDS AFSL" on the TRUTH TABLE |
| 20 | $\overline{\text{TUN ADJ}}$ | I | For adjusting IC10 | Adjustment=H, PS1-1, 2=L, PS1-3=Hi-Z, PS2-1, 2=Hi-Z<br>TUN DATA, CLK=Hi-Z |
| 21 | TUN SD | I | Tuner search stop input | H : Station exists, L : Station does not exist |
| 22 | LX RST | O | Hard reset to slave unit | H : Reset, L : Normal condition |
| 23 | LX CON | O | Start-up request to slave unit | H : Slave unit ON, L : Slave unit OFF |
| 24 | LX REQ M | O | Communication request to slave unit | |
| 25 | AUD SDA | I/O | Tuner + volume I2C data input and output | |
| 26 | AUD SCL | I/O | Tuner + volume I2C clock input and output | |
| 27 | PWIC STBY | O | Power IC standby output | Power IC ON : H, Power IC OFF : L |
| 28 | VOL MUTE | O | E-VOL mute output | L : Mute OFF, Hi-Z : Mute ON |
| 29 | $\overline{\text{PWIC MUTE}}$ | O | Power IC mute output | Power OFF : L, Standby : L, Tel mute : L |
| 30 | RDS AFSM | - | | |
| 31 | RESET2 | O | Mute for reset | Output L |
| 32 | RDS DATA | I | RDS decoder data input | |
| 33 | VSS1 | - | | |
| 34 | RDS QUAL | I | RDS decoder QUAL input | |
| 35 | $\overline{\text{ACC DET}}$ | I | ACC detection | ACC exists : L, ACC does not exist : H |
| 36 | $\overline{\text{BU DET}}$ | I | Momentary power-down detection | BU exists : L, BU does not exist (Momentary power-down) : H |
| 37 | $\overline{\text{PON}}$ | I/O | SW5V/SW14V control | Power ON : L, Power OFF : Hi-Z |
| 38,39 | PS2-2, PS2-1 | O | Power supply control output | Refer to "POWER IC CONTROL" on the TRUTH TABLE |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

| Pin No. | Pin Name | I/O | Application | Processing Operation |
|---|---|---|---|---|
| 40~42 | PS1-1~PS1-3 | O | Power supply control output | Refer to "POWER IC CONTROL" on the TRUTH TABLE |
| 43 | $\overline{\text{KEY CDEJ}}$ | I | Eject key | L : Eject |
| 44 | PON CD | I/O | Power supply control for MP3/WMA | ON : L, OFF : Hi-Z |
| 45 | CD MUTE | I | CD mute request | L : Mute request |
| 46 | $\overline{\text{CD MSTOP}}$ | O | CD mecha μ-com stop | H : mecha μ-com operates, L : mecha μ-com is stopped |
| 47 | CD LOE LIM SW | I | CD detection (chucking switch) | H : Loading is finished, L : Disc does not exist |
| 48 | CD LOEJ | I/O | CD motor control | Refer to "CD MECHA CONTROL OPERATION" on the TRUTH TABLE |
| 49 | CD MOTOR | O | CD motor control | Refer to "CD MECHA CONTROL OPERATION" on the TRUTH TABLE |
| 50 | CD DISC8 SW | - | | |
| 51 | $\overline{\text{CD MRST}}$ | O | CD mecha μ-com reset | H : Normal condition, L : Reset |
| 52 | CD SCL | I/O | CD mecha I2C clock output | |
| 53 | CD DISC12 SW | I | 12cm CD detection | |
| 54 | CD LOS SW | I | CD loading detection | |
| 55 | CD SDA | I/O | CD mecha I2C data input and output | |
| 56 | OEM DISP CE | I/O | External display chip enable | External display |
| 57 | OEM DISP CLK | I/O | External display clock | External display |
| 58 | OEM DISP DATA | I/O | External display chip data | External display |
| 59 | EJECT ILLUMI | O | Eject illumination control | LED ON : H, LED OFF : L<br>LED ON when FLIP-DOWN DET is H and PANEL DET is L.<br>LED blinks when FLIP-DOWN DET is H and PANEL DET is L. |
| 60 | $\overline{\text{RESET}}$ | I | | |
| 61 | $\overline{\text{PANEL DET}}$ | I | Panel detection | Panel OFF : L, Panel ON : H |
| 62 | $\overline{\text{PON FL}}$ | O | VFD power supply ON | VFD ON : H, VFD OFF : L<br>Flip-down detection H : L, Flip-down detection L : H |
| 63 | KEY REQ | I | Communication request from VFD driver | L : Key input |
| 64 | RDS CLK | I | RDS decoder clock input | |
| 65 | REMOTE | I | Remote control input | |
| 66 | LX REQ S | I | Communication request from slave unit | |
| 67 | VSS0 | - | | |
| 68 | VDD1 | - | | |
| 69,70 | X2, X1 | - | | |
| 71 | TEST | - | | |
| 72,73 | XT2, XT1 | - | | |
| 74 | VDD0 | - | | |
| 75 | AVDD | - | | |
| 76~78 | TYPE 3~TYPE 1 | I | Destination switch | |
| 79 | RDS NOISE | I | Tuner quality (Noise) input | |
| 80 | TUN SMETER | I | Tuner S-meter input | |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

## ● TRUTH TABLE

**TUN TYPE**

| | TYPE 1 | TYPE 2 |
|---|---|---|
| General models commercially-designated as pure KENWOOD brand (Initial value)<br>Initial value setting | L | L |
| General models commercially-designated as pure KENWOOD brand (CRSC is changed)<br>Multi-Path Band-Path Gain = 12dB, Multi-Path Charge Current = 0.4μA, De-Emphasis = 75μS | H | L |

**RDS AFSL (AF search)**

| | |
|---|---|
| High | Normal condition communication (IC10 side : High)<br>(Quality time constant long / Stereo Decoder PLL : Not hold) |
| Low | AF search (IC10 side : MID)<br>(Quality time constant short / Stereo Decoder PLL : Hold) |

**POWER SUPPLY IC (IC3) CONTROL**

SW1 (Pin No. 10)

| PS1-1 | PS1-2 | PS1-3 | AUDIO | P-CON | P-ANT |
|---|---|---|---|---|---|
| L | L | L | OFF | OFF | OFF |
| H | L | L | ON | OFF | OFF |
| H | H | L | ON | ON | OFF |
| H | H | H | ON | ON | ON |

SW2 (Pin No. 11)

| PS2-1 | PS2-2 | ILLUMI | FM+B | AM+B |
|---|---|---|---|---|
| L | L | OFF | OFF | OFF |
| H | L | ON | ON | OFF |
| H | H | ON | ON | ON |

**CD MECHA CONTROL OPERATION**

| CD LOEJ | CD MOTOR | CD MECHA OPERATION |
|---|---|---|
| L | H | Load |
| H | H | Eject |
| Hi-Z | L | Stop |
| Hi-Z | H | Brake |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

## ● CD MECHANISM μ-COM : IC1 on X32- (CD PLAYER UNIT)

| Pin No. | Pin Name | I/O | Application | Processing Operation |
|---|---|---|---|---|
| 1 | VREFL | - | Reference power supply input terminal for ADC (L). | GND |
| 2 | AVSS | - | GND terminal for ADC. | GND |
| 3 | AVCC | - | Power supply terminal for ADC. | Back-up 3.3V |
| 4 | NC | - | | |
| 5 | $\overline{20RST}$ | O | Reset control (Decoder). | L : Reset, H : Normal condition |
| 6 | 20ACK | I | Acknowledge signal input (Decoder). | |
| 7 | 20STBY | O | Standby control (Decoder). | H : Standby, L : Normal condition |
| 8,9 | NC | - | | |
| 10 | 20INT | I | Interrupt signal input (Decoder). | |
| 11 | FOGUP | I | Focus gain-up interrupt. | H : Focus gain-up, L : Normal condition |
| 12 | LZM | I | 0 bit mute detection (Lch). | L : MUTE OFF, H : MUTE ON |
| 13 | RZM | I | 0 bit mute detection (Rch). | L : MUTE OFF, H : MUTE ON |
| 14,15 | NC | - | | |
| 16 | $\overline{20CS}$ | O | Chip select signal output (Decoder). | |
| 17 | $\overline{20LP}$ | O | Latch pulse signal output (Decoder). | |
| 18 | 20TXD0 | I/O | Data output for serial data (Decoder). | Input condition is kept except in output condition. |
| 19 | 20RXD0 | I | Data input for serial data (Decoder). | |
| 20 | 20SCLK0 | O | Clock output for serial data (Decoder). | |
| 21 | DSPTXD1 | O | Data output for serial data (DSP). | |
| 22 | DSPRXD1 | I | Data input for serial data (DSP). | |
| 23 | DSPSCLK1 | O | Clock output for serial data (DSP). | |
| 24 | AM0 | - | ROM mode selection terminal. | H : Normal condition, L : External ROM mode |
| 25 | DVCC | - | Back-up 3.3V. | |
| 26 | X2 | O | Resonator terminal. | 16MHz |
| 27 | DVSS | - | GND. | |
| 28 | X1 | I | Resonator terminal. | 16MHz |
| 29 | AM1 | I | "H" condition is fixed. | Back-up 3.3V |
| 30 | $\overline{RESET}$ | I | Reset detection. | L : Reset, H : Normal condition |
| 31~34 | NC | - | | |
| 35 | $\overline{DSPSTB}$ | O | Data strobe signal output (DSP). | |
| 36 | DSPA0 | O | Command/Parameter identification signal output (DSP). | H : Parameter data output,<br>L : Command data output |
| 37 | $\overline{DSPRST}$ | O | Reset control (DSP). | |
| 38 | DSPINT | I | Interrupt signal input (DSP). | H : Interrupt |
| 39 | NC | - | | |
| 40 | SEARCH | O | Search condition output. | H : Search, L : Normal condition |
| 41 | LOE/LIM SW | I | Loading-end detection/Pick-up inner circumference detection | H : Inner circumference |
| 42~49 | NC | - | | |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

| Pin No. | Pin Name | I/O | Application | Processing Operation |
|---|---|---|---|---|
| 50 | FLAGIN | I | C2Err impossibility detection. | L : Correction is possible.<br>H : Correction is impossible. |
| 51~61 | NC | - | | |
| 62 | DVSS | - | GND. | |
| 63 | $\overline{\text{NMI}}$ | I | Non-maskable interrupt request. | |
| 64 | DVCC | - | Power supply terminal. | |
| 65~77 | NC | - | | |
| 78 | NC/BOOT | I | Mask : Not connected. Flash : For writing (Active "L"). | L : Write, H : Nomal condition |
| 79,80 | NC | - | | |
| 81 | OND3.3 | O | Digital 3.3V power-on control terminal. | H : POWER ON |
| 82 | $\overline{\text{MUTEL}}$ | O | Lch audio mute control. | |
| 83 | $\overline{\text{MUTER}}$ | O | Rch audio mute control. | |
| 84 | SDA | I/O | I2C data (Main μ-com). | |
| 85 | SCL | I/O | I2C clock (Main μ-com). | |
| 86 | $\overline{\text{MSTOP}}$ | I | Stand-by comeback interrupt. | L : Stop, H : Stop is released. |
| 87 | NC | - | | |
| 88 | $\overline{\text{DMUTE}}$ | O | Driver mute. | L : MUTE ON, H : MUTE OFF |
| 89 | DVCC | - | Power supply terminal. | |
| 90 | NC | - | | |
| 91 | DVSS | - | GND. | |
| 92,93 | NC | - | GND. | |
| 94 | MSEL | I | Memory capacity switching terminal. | H : Capacity size down, L : Capacity size up |
| 95 | NC | - | GND. | |
| 96 | ASEL | I | Audio output polarity switch. | H : Reverse output, L : Non-reverse output |
| 97 | CHSEL | I | Changer destination terminal. | H : Changer, L : Other source |
| 98 | SEL0 | I | μ-com destination terminal 0. | |
| 99 | SEL1 | I | μ-com destination terminal 1. | |
| 100 | VREFH | I | Reference power supply input terminal for ADC (H). | Back-up 3.3V |

# TEST MODE

### How to enter the test mode

While simultaneously press PRESET “1” key and PRESET “3” key, press “RESET” button.

### How to release the test mode

Press “RESET” button. (The release cannot be achieved in the conditions of POWER OFF and ACC OFF.)

### Initial conditions of the test mode

- The source is “STANDBY”.
- The displays all lit up.
- The volume is at –10dB (The display shows “30”.)
- LOUD is “OFF”.
- CRSC is “OFF”.
- SYSTEM Q is “NATURAL”.
- BEEP is sounded at all time with the key depressed for less than 1 second.

### Special displays when all indicator lights are lighted

When “PRESET” keys are pressed while all indicators for the STANDBY sources are lighted, the following displays will appear.

| | |
|---|---|
| PRESET “1” key | • Version display (8 digits : month, date, hour, minute)<br>(Display) : x x x x x x x x |
| PRESET “2” key | • Serial number display (8 digits)<br>(Display) : x x x x x x x x |
| PRESET “3” key | • When pressed for less than 1 second : POWER ON time display (STANDBY source time is not counted.)<br>(Display) : PON x x x x x MAX 60,000 (hours)<br>* The display is cleared by pressing the key for more than 2 seconds. |
| PRESET “4” key | • When pressed for less than 1 second : CD operation time display<br>(Display) : PLY x x x x x MAX 60,000 (hours)<br>* The display is cleared by pressing the key for more than 2 seconds. |
| PRESET “5” key | • When pressed for less than 1 second : CD EJECT number display<br>(Display) : EJC x x x x x MAX 60,000 (times)<br>* The display is cleared by pressing the key for more than 2 seconds. |
| PRESET “6” key | • When pressed for less than 1 second : Panel open/close number display<br>(Display) : PNL x x x x x MAX 600,000 (times)<br>* The display is cleared by pressing the key for more than 2 seconds. |
| “FM” key | • ROM CORRECTION version display<br>(Display)<br>Effective : ROM _ Rxxx (x : number)<br>Not effective (When not able to read) : ROM _ R – – –<br>Not effective (When version is different) : ROM _ R✻✻✻ |
| “AM” key | • IC10 adjustment status (Refer to “ADJUSTMENT” on the following page.)<br>(Display)<br>Adjustment complete : E2P _ OK _ _<br>Adjustment not completed : E2P _ ER _ _<br>Communication error : I2C _ ER _ _<br>* When other than “E2P _ OK _ _” , Pin No. 30 will become “H”. |
| “I◀◀” key | • Mechanism error detection status<br>• Communication error → Error No. 1 → Error No. 2 → Error No. 3 → Communication error (Error No. 1 is the most recent error.)<br>(Display)<br>Communication OK : I2C _ OK _ _<br>Communication error : I2C _ NG _ _<br>Not detected : ERR _ n – – – (n : 1~3)<br>Detected : ERR _ n-✻✻ (✻✻ : error code)<br>* The display is cleared by pressing the key for more than 2 seconds. |

# SPECIAL MODE

## ● Security (KDC-MP5029/W5031/W5031Y only)

### • How to enter the forced POWER ON mode

While "– – – –" is being displayed, while simultaneously pressing "Q" key and "4" key, press "RESET" button, With this, it is possible to turn the power on for 30 minutes only.

### • How to register the security code on the "Car Audio Passport" sheet after replacing E2PROM (IC11)

1. Enter the test mode. (Refer to "How to enter the test mode".)
2. In the test mode, press "MENU" key to enter the MENU mode.
   When "SECURITY" is displayed, press "⏯" key (for less than 1 second) to enter the security registration mode.
3. Input the security code, using "FM" / "AM" / "⏮" / "⏭" keys.
   "FM" key : number up / "AM" key : number down
   "⏭" key : cursor to right / "⏮" key : cursor to left
4. After inputting the code, press "⏯" key for 3 seconds or more which causes "RE-ENTER" to be displayed. This is for "confirming" the code. Use the method in above No. "3" to re-enter the code.
5. Then, press "⏯" key for 3 seconds or more, which will display "APPROVED". This completes the security code registration.
6. Release the test mode. (Refer to "How to release the test mode" .)

* All clear cannot be used to clear the security code.

## ● DC offset error detection confirmation mode

Confirmation mode :

While depressing PRESET "3" key and PRESET "6" key simultaneously, press on the "RESET" button.

(Display) Detected : DC _ ERR _ _

Not detected : DC _ OK _ _ _

* By pressing "AUTO" or "TI" key while "DC _ ERR _ _" is being displayed, detection status is cleared. This will result in the display of "DC _ OK _ _ _".

Release Method : Press "RESET" button.

## ● Mechanism memory clear confirmation mode

Confirmation mode :

While depressing "ATT" key and "Q" key simultaneously, press "RESET" button.

(Display) : MEM _ CLR _

* 2 seconds after the confirmation mode boots up, Mechanism memory clear as a result is displayed.

(Display) Clear status display normal completion

: CD _ O _ _ _

Clear status display abnormal completion

: CD _ X _ _ _

Release Method : Press "RESET" button.

## ● FM/AM channel space switching (KDC-MP5029 only)

When in the conditions of ACC ON and POWER OFF, while depressing PRESET "1" key and PRESET "5" key simultaneously, press "SRC" key.

# ADJUSTMENT

After replacing the following parts, adjust as follows.

| REPLACED PARTS | | ADJUSTMENT ITEMS | | |
|---|---|---|---|---|
| Ref. No. | Function / Parts name | 1st AM MIX | 2nd AM MIX | FM antenna |
| IC10 | E-VOL & TUNER | YES | YES | YES |
| IC11 | E2PROM | YES | YES | YES |
| L507 | VCO COIL | YES | YES | YES |
| L508 | 1st AM MIX IFT | YES | - | - |
| L509 | 2nd AM MIX IFT | - | YES | - |
| L518 | FM ANTENNA COIL | - | - | YES |
| D504 | VARIABLE CAPACITANCE DIODE | YES | YES | YES |
| D506 | VARIABLE CAPACITANCE DIODE | YES | YES | YES |
| X501 | CRYSTAL RESONATOR | YES | YES | YES |

## ● 1st AM MIX / 2nd AM MIX ADJUSTMENT

ADJUSTMENT POINT : L508 (1st AM MIX) / L509 (2nd AM MIX)
VOLTAGE VALUE CHECK POINT : S-METER check land (X34-)
Adjust so that S-METER voltage value becomes maximum.

### • SG setting

| DESTINATION | FREQUENCY | MODULATION | ANTENNA INPUT |
|---|---|---|---|
| Europe | 999kHz | OFF | 35dBμV (EMF) |
| Except Europe | 1000kHz | OFF | 35dBμV (EMF) |

## ● FM ANTENNA ADJUSTMENT

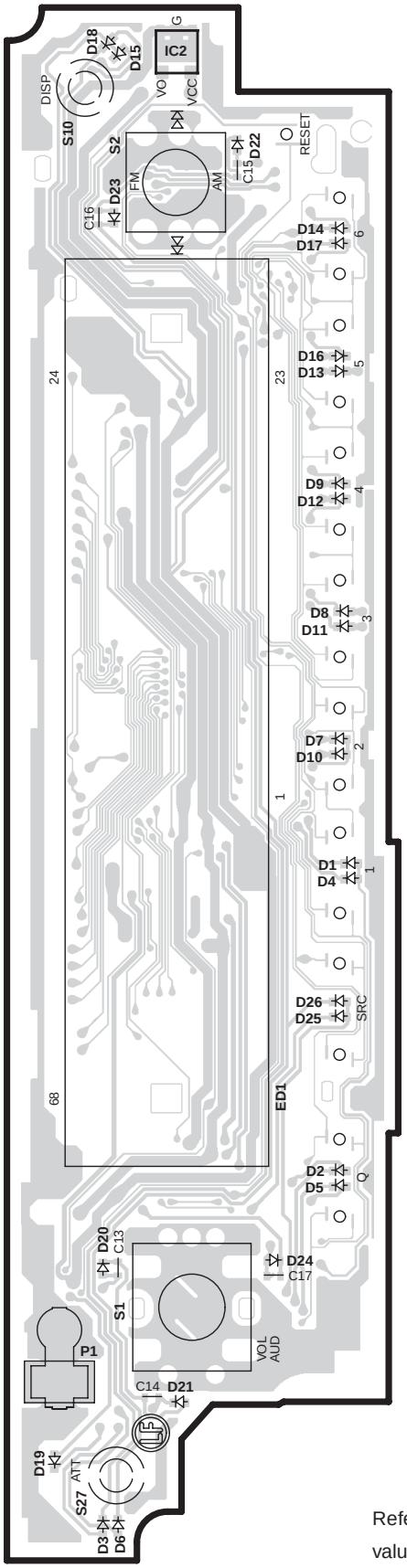
ADJUSTMENT POINT : L518
VOLTAGE VALUE CHECK POINT : S-METER check land (X34-)
Adjust so that S-METER voltage value becomes maximum.

### • SG setting

| DESTINATION | FREQUENCY | MODULATION | ANTENNA INPUT |
|---|---|---|---|
| Europe | 87.5MHz | OFF | 5dBμV (LOAD) or 11dBμV (EMF) |
| Except Europe | 87.9MHz | OFF | 5dBμV (LOAD) or 11dBμV (EMF) |

# PC BOARD
# (COMPONENT SIDE VIEW)

**SWITCH UNIT**
**X16-291x-xx (J76-0040-32)**

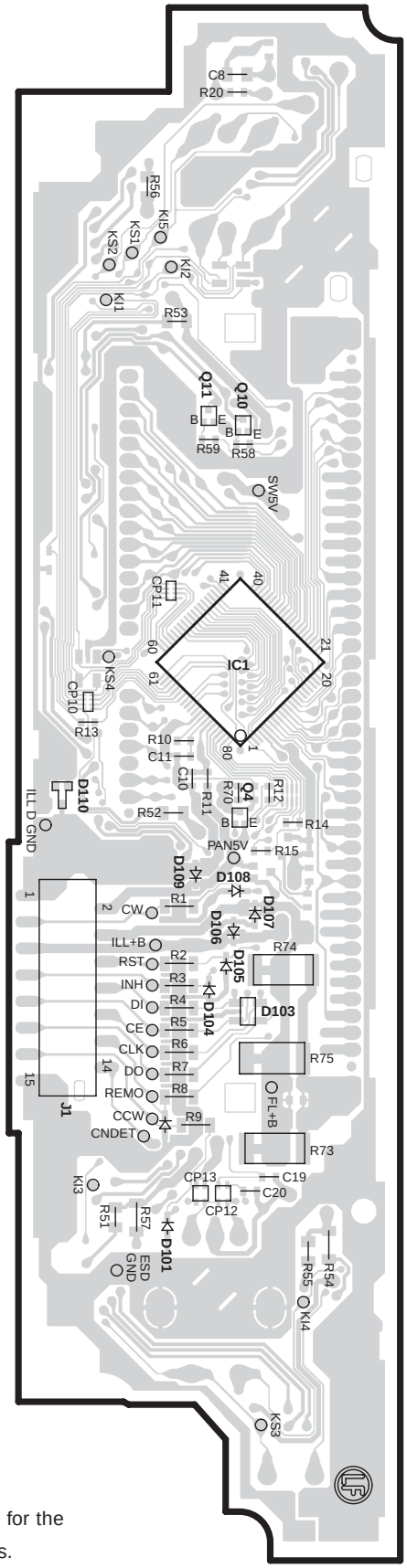



**X16-291x-xx**

| Ref. No. | Address |
|---|---|
| IC2 | 2A |

# (FOIL SIDE VIEW)

**SWITCH UNIT**
**X16-291x-xx (J76-0040-32)**



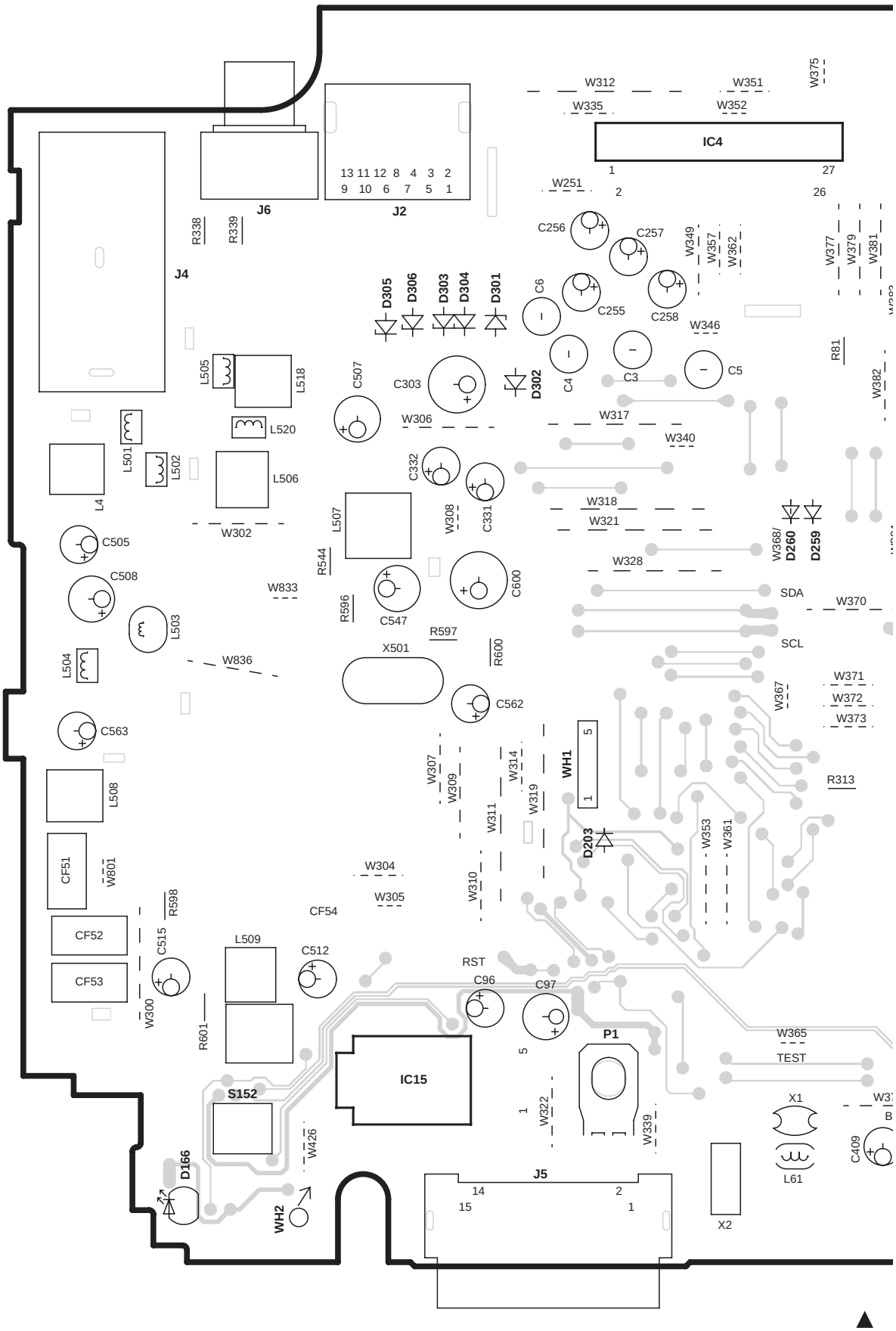

**X16-291x-xx**

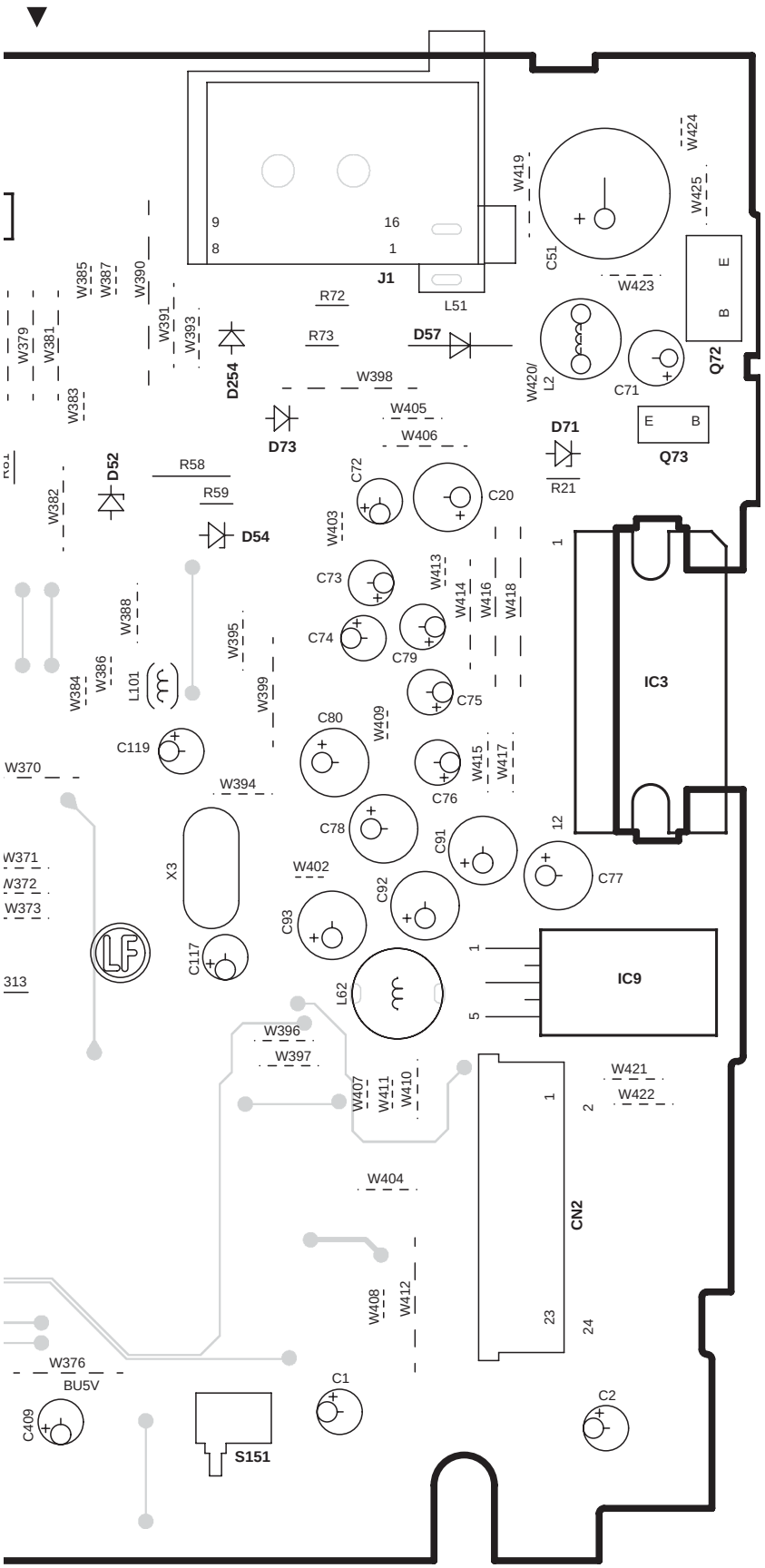
| Ref. No. | Address |
|---|---|
| IC1 | 4D |
| Q4 | 4D |
| Q10 | 3D |
| Q11 | 3D |

Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (COMPONENT SIDE VIEW)

**ELECTRIC UNIT X34-339x-xx (J76-0075-12)**






**X34-339x-xx**

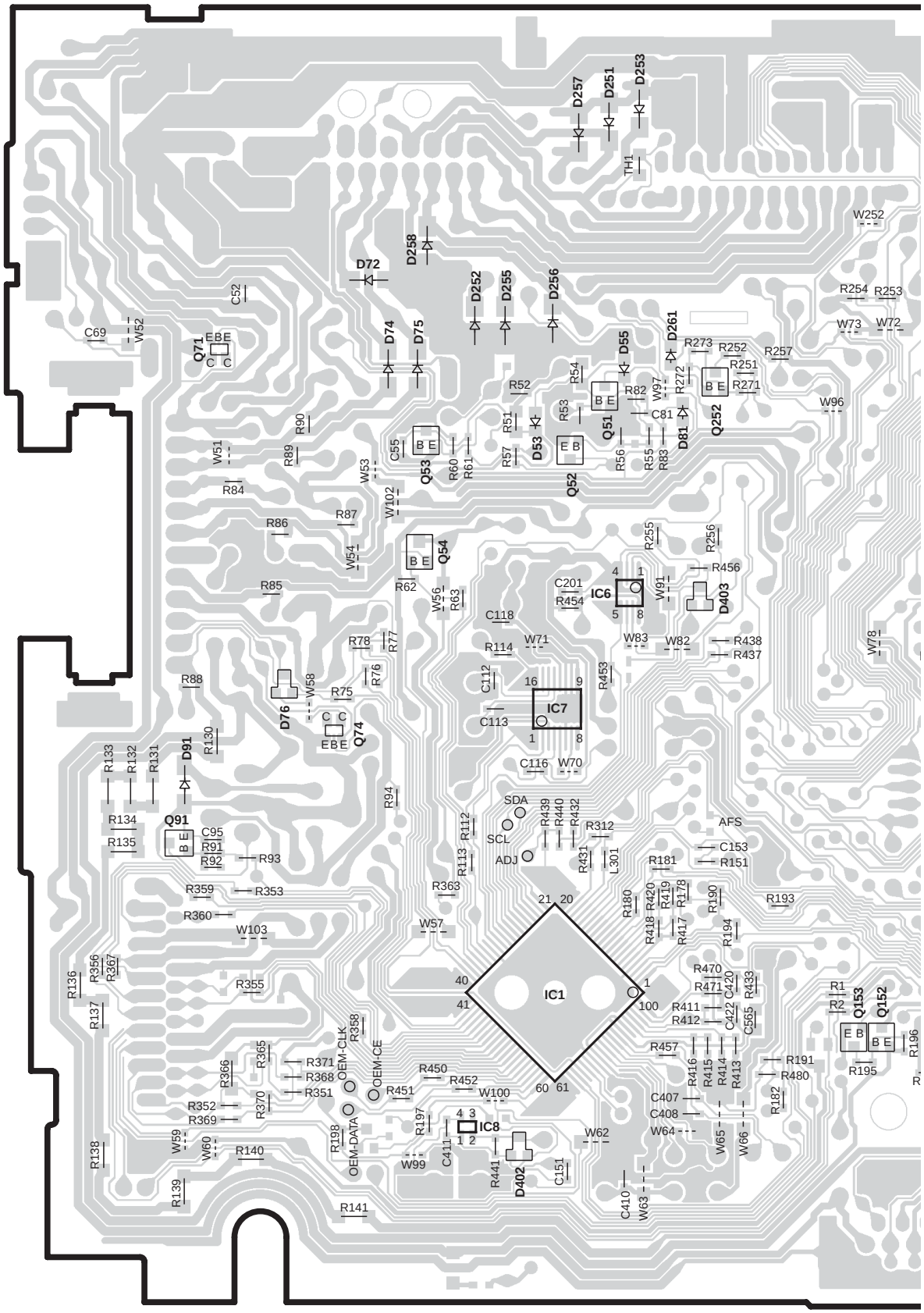
| Ref. No. | Address |
|---|---|
| IC3 | 4M |
| IC4 | 2J |
| IC9 | 5M |
| IC15 | 6H |
| Q72 | 3M |
| Q73 | 3M |

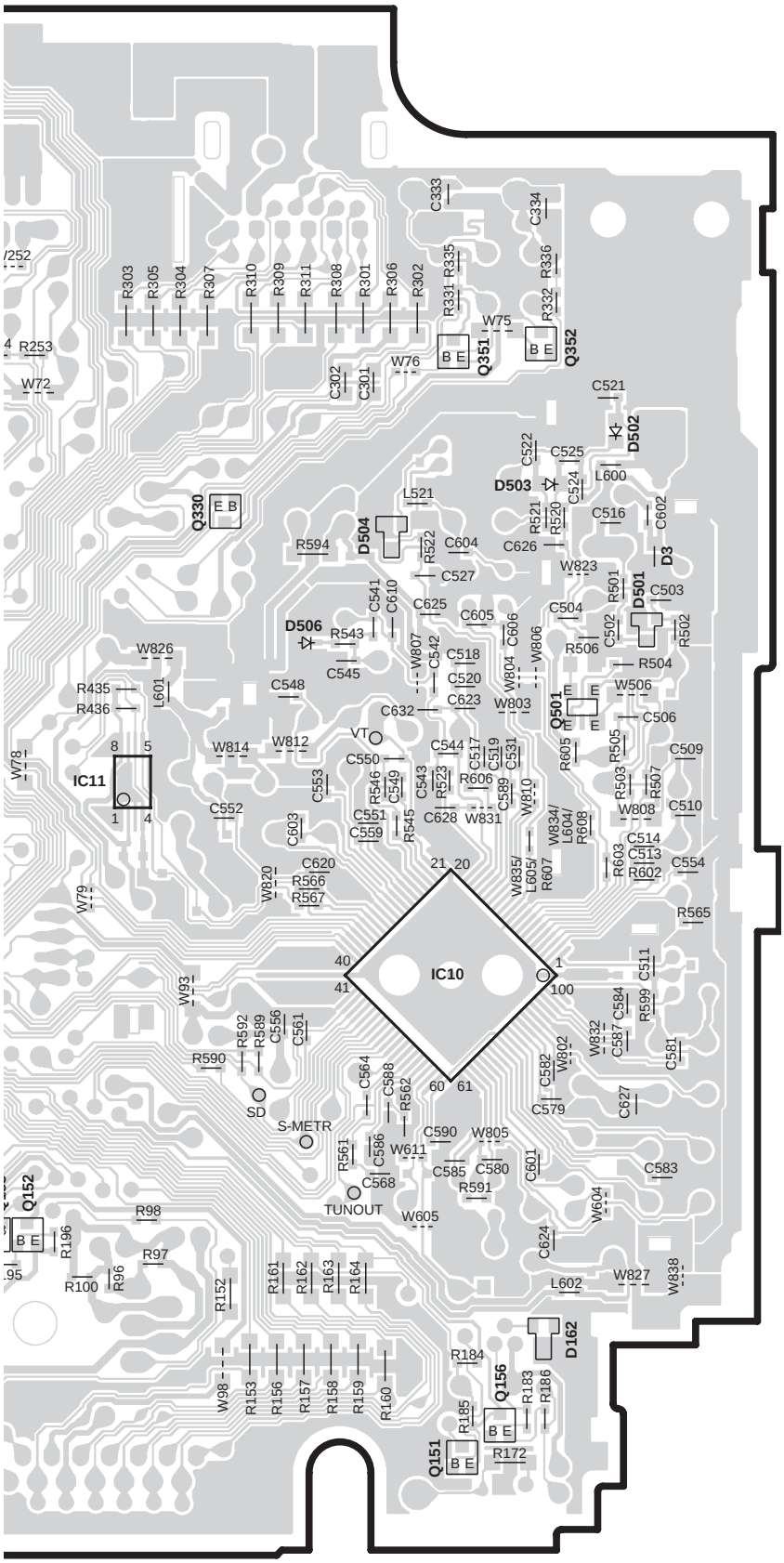
Refer to the schematic diagram for the values of resistors and capacitors.

KDC-MP5029/W5031
/W5031Y/W531Y

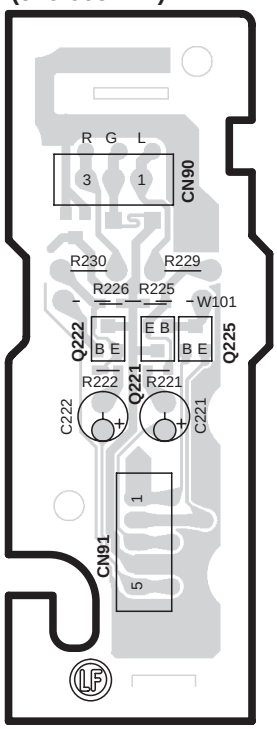
# PC BOARD (FOIL SIDE VIEW)

**ELECTRIC UNIT X34-339x-xx (J76-0075-12)**






**DAUGHTER UNIT**
**X89-2690-10**
**(J76-0057-12)**




**X89-2690-10**

| Ref. No. | Address |
|---|---|
| Q221 | 3X |
| Q222 | 3X |
| Q225 | 3Y |

**X34-339x-xx**

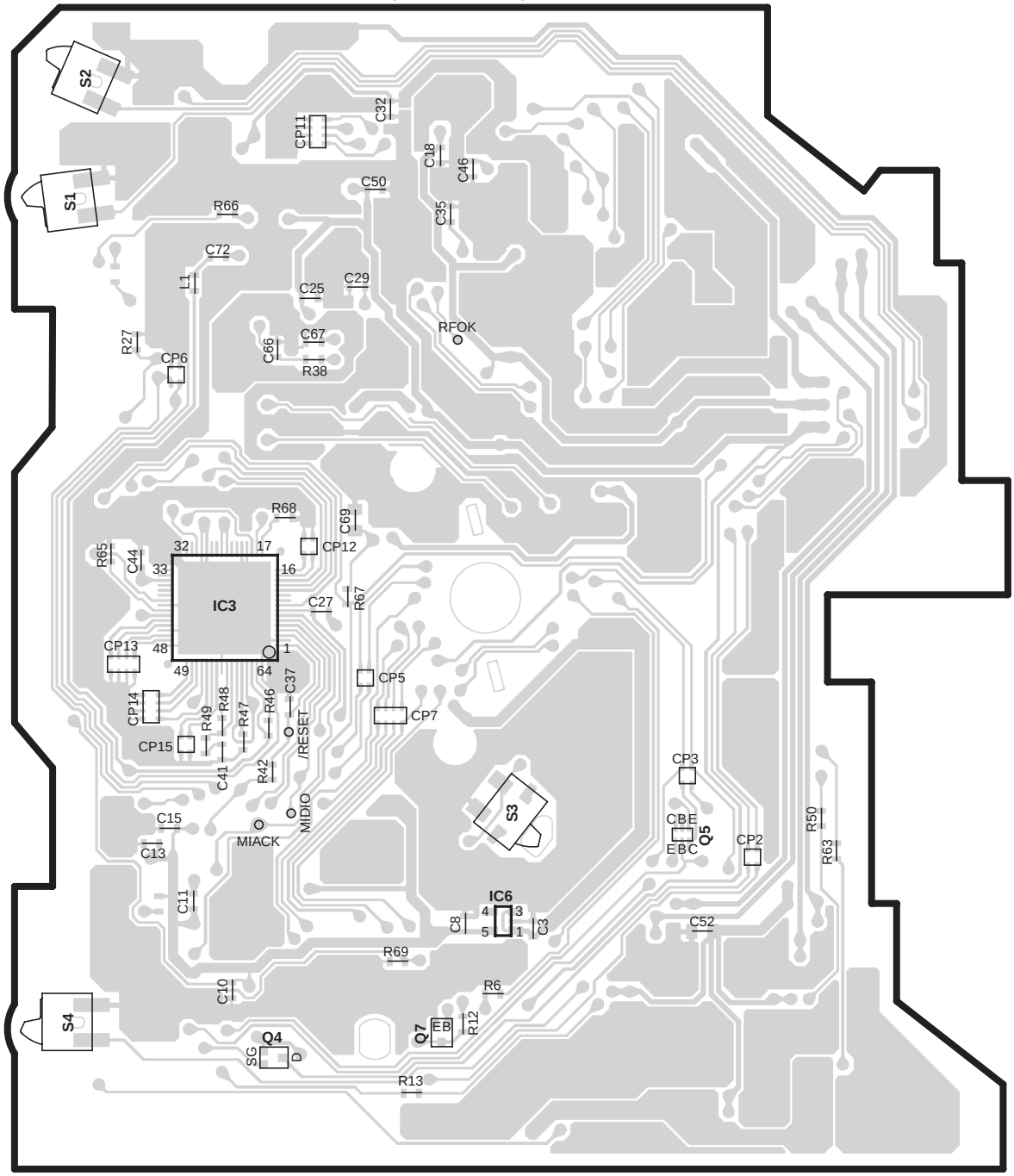
| Ref. No. | Address | Ref. No. | Address |
|---|---|---|---|
| IC1 | 6S | Q74 | 5R |
| IC6 | 4S | Q91 | 5Q |
| IC7 | 4S | Q151 | 7V |
| IC8 | 6S | Q152 | 6T |
| IC10 | 5V | Q153 | 6T |
| IC11 | 4U | Q156 | 6V |
| Q51 | 3S | Q252 | 3T |
| Q52 | 3S | Q330 | 3U |
| Q53 | 3R | Q351 | 3V |
| Q54 | 4R | Q352 | 3W |
| Q71 | 3Q | Q501 | 4W |

Refer to the schematic diagram for the values of resistors and capacitors.

KDC-MP5029/W5031
/W5031Y/W531Y

# PC BOARD (COMPONENT SIDE VIEW)

**CD PLAYER UNIT X32-5500-00 (J74-1552-12)**



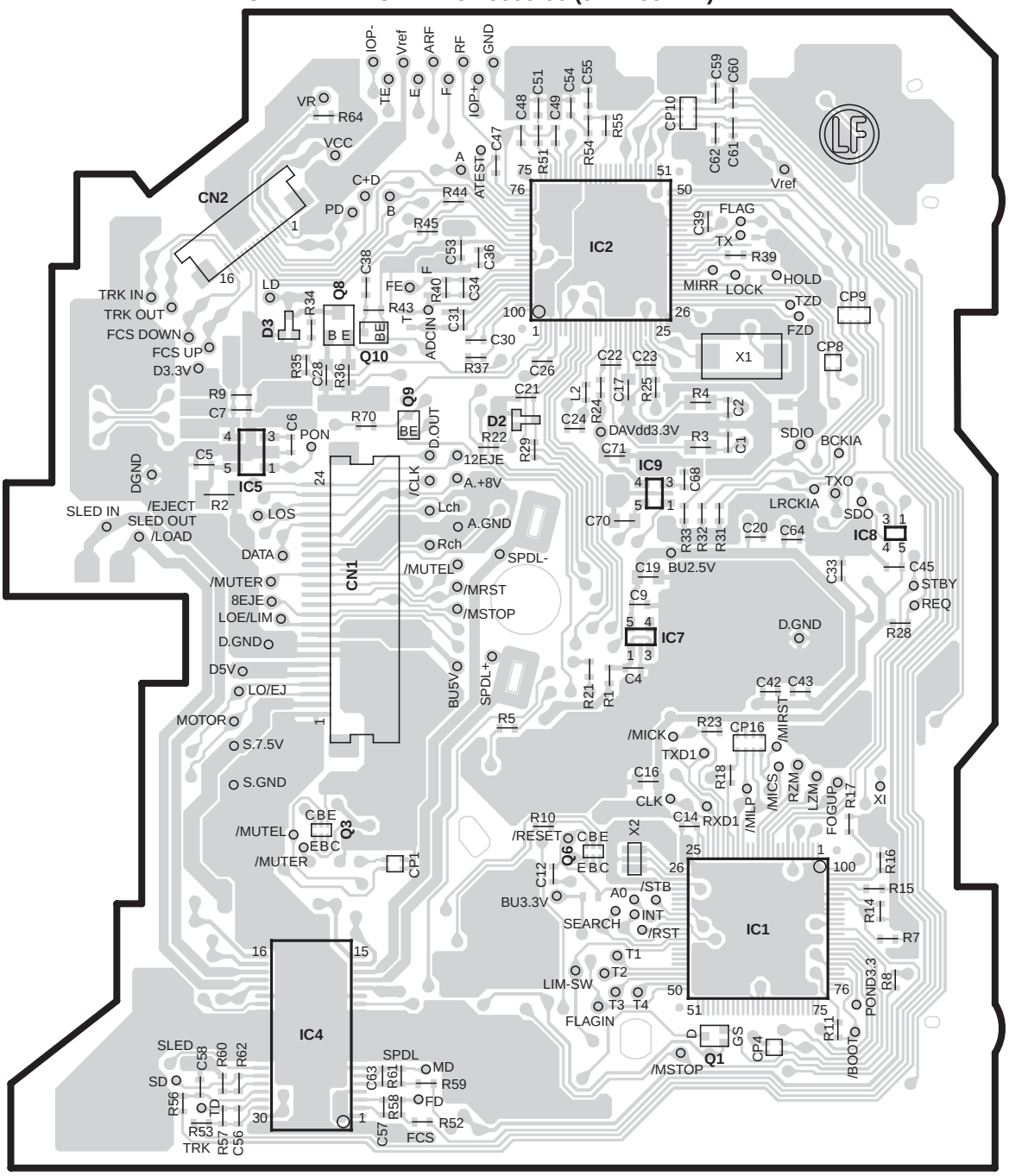

**X32-5500-00**

| Ref. No. | Address |
|---|---|
| IC3 | 4AA |
| IC6 | 5AB |
| Q4 | 5AA |
| Q5 | 5AC |
| Q7 | 5AB |

Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (FOIL SIDE VIEW)

**CD PLAYER UNIT X32-5500-00 (J74-1552-12)**

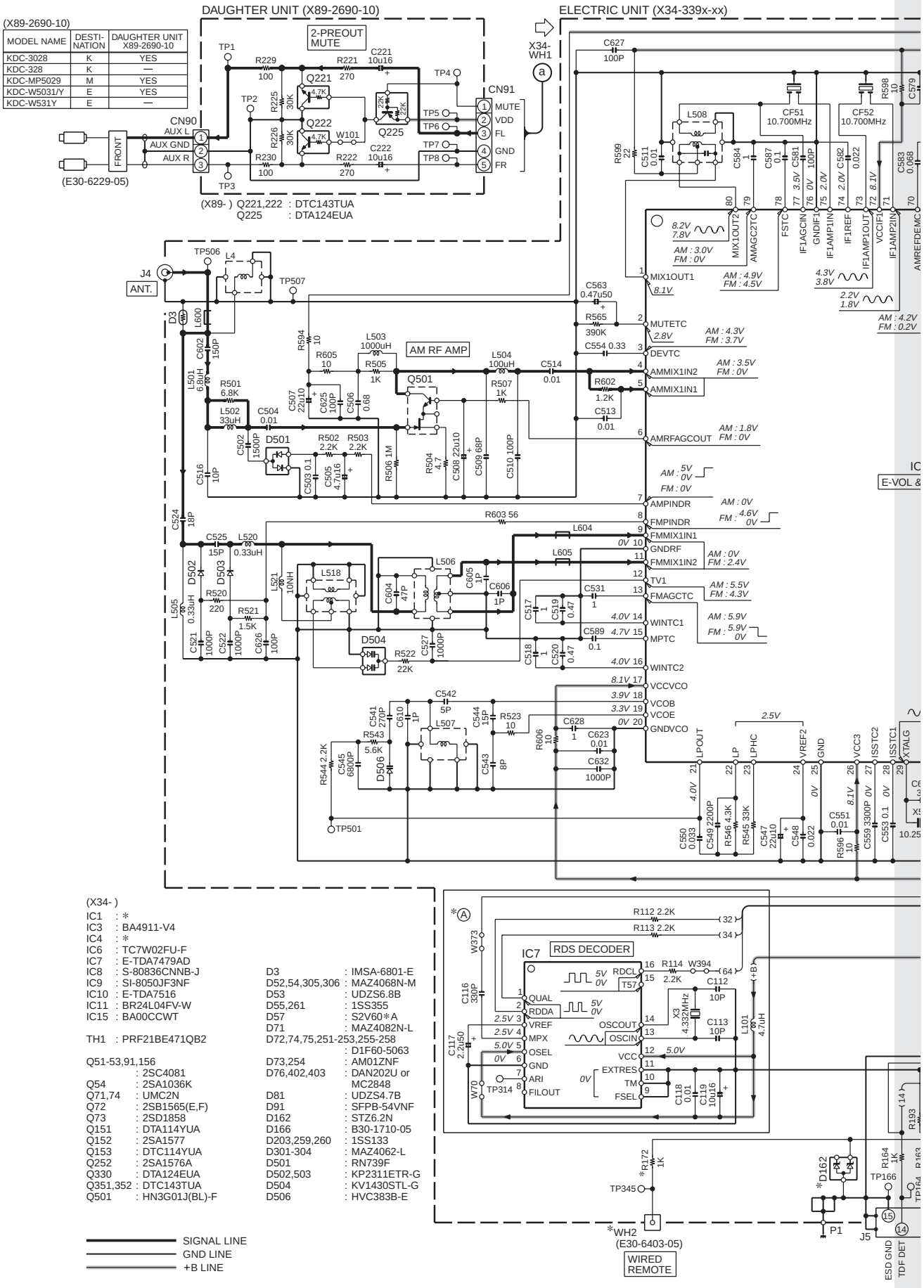



**X32-5500-00**

| Ref. No. | Address | Ref. No. | Address |
|---|---|---|---|
| IC1 | 5AH | Q1 | 5AH |
| IC2 | 2AG | Q3 | 5AF |
| IC4 | 5AF | Q6 | 5AG |
| IC5 | 3AF | Q8 | 2AF |
| IC7 | 4AG | Q9 | 3AF |
| IC8 | 3AH | Q10 | 3AF |
| IC9 | 3AG | | |

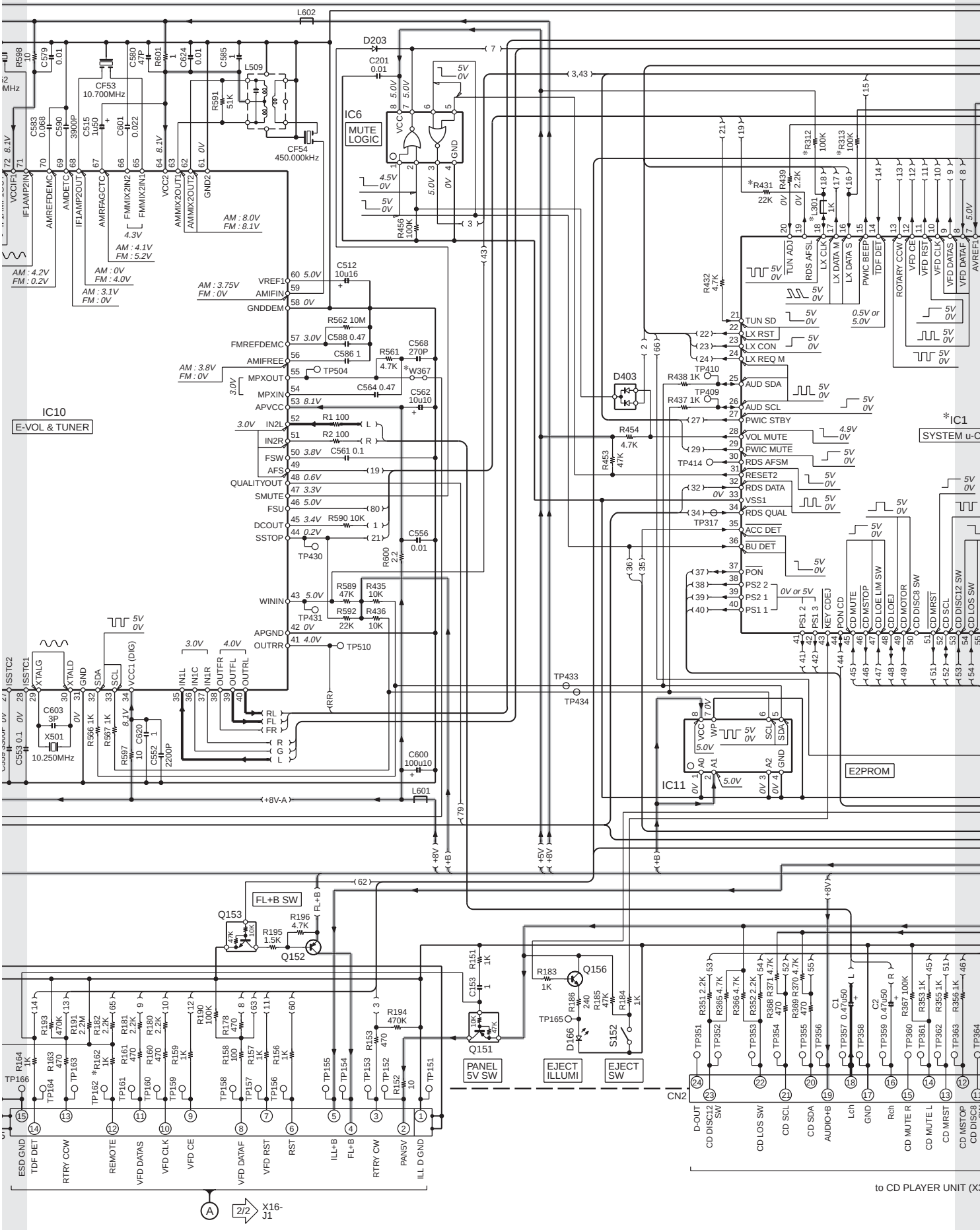
Refer to the schematic diagram for the values of resistors and capacitors.

# KDC-MP5029/W5031 /W5031Y/W531Y

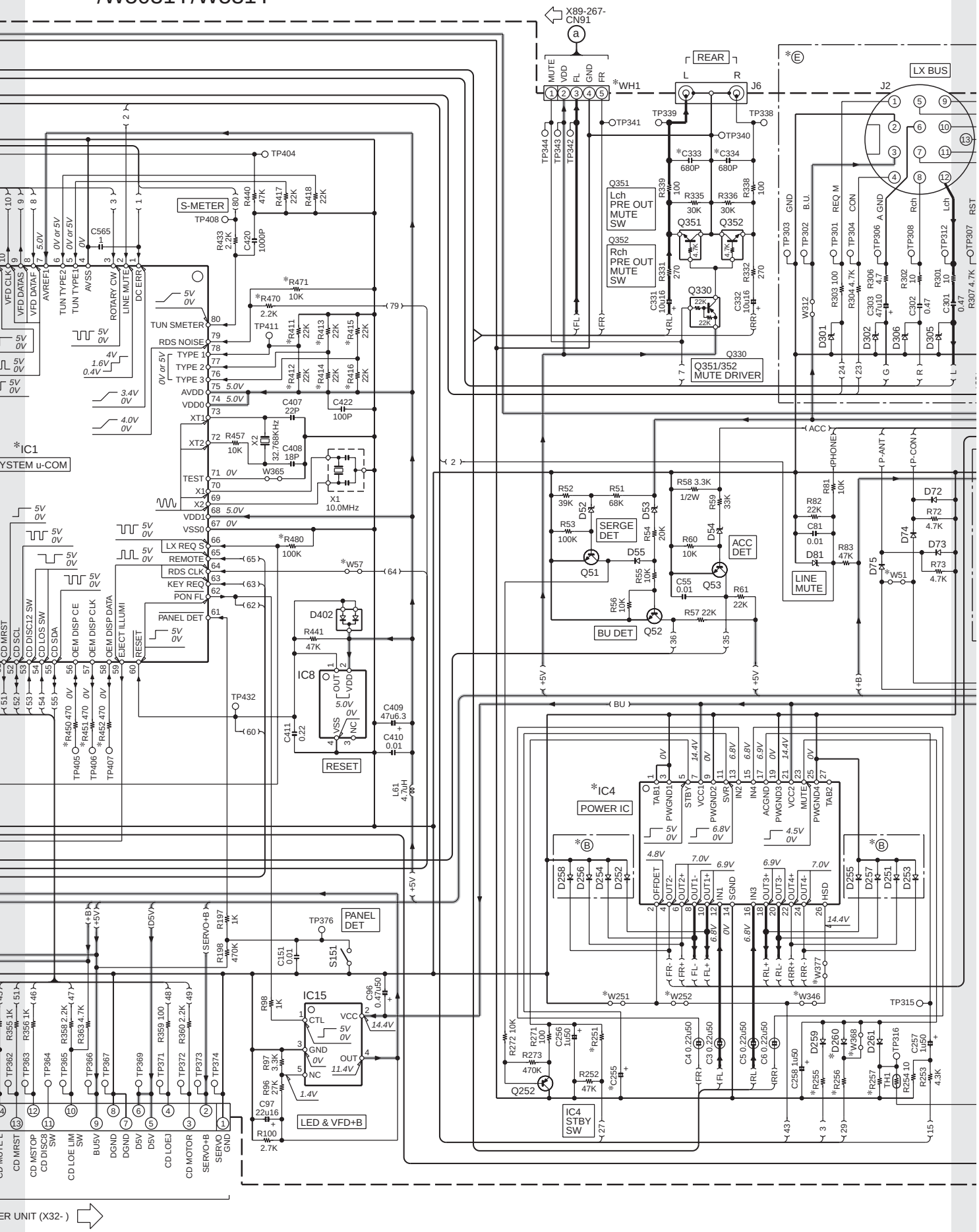


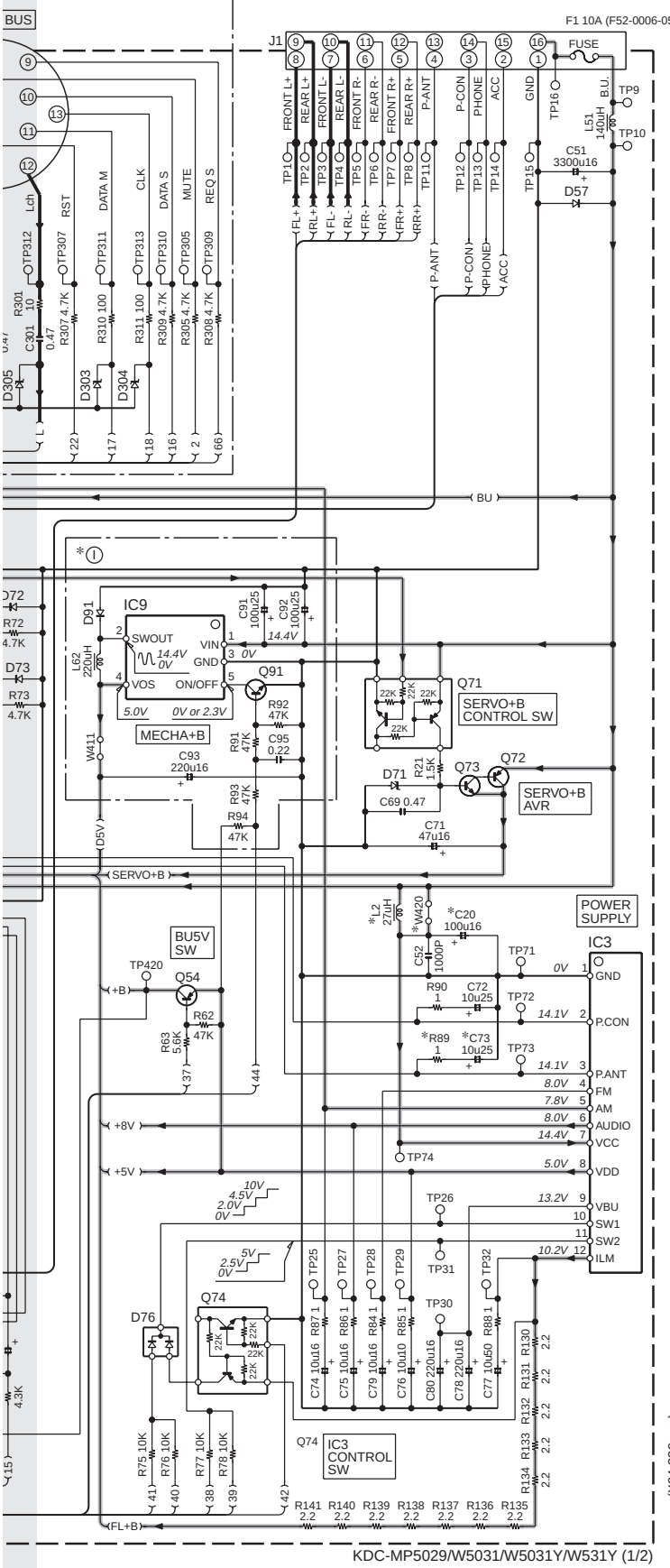

(X34- )

| | | | |
|---|---|---|---|
| IC1 | : * | D3 | : IMSA-6801-E |
| IC3 | : BA4911-V4 | D52,54,305,306 | : MAZ4068N-M |
| IC4 | : * | D53 | : UDZS6.8B |
| IC6 | : TC7W02FU-F | D55,261 | : 1SS355 |
| IC7 | : E-TDA7479AD | D57 | : S2V60*A |
| IC8 | : S-80836CNNB-J | D71 | : MAZ4082N-L |
| IC9 | : SI-8050JF3NF | D72,74,75,251-253,255-258 | : D1F60-5063 |
| IC10 | : E-TDA7516 | D73,254 | : AM01ZNF |
| IC11 | : BR24L04FV-W | D76,402,403 | : DAN202U or MC2848 |
| IC15 | : BA00CCWT | D81 | : UDZS4.7B |
| TH1 | : PRF21BE471QB2 | D91 | : SFPB-54VNF |
| Q51-53,91,156 | : 2SC4081 | D162 | : STZ6.2N |
| Q54 | : 2SA1036K | D166 | : B30-1710-05 |
| Q71,74 | : UMC2N | D203,259,260 | : 1SS133 |
| Q72 | : 2SB1565(E,F) | D301-304 | : MAZ4062-L |
| Q73 | : 2SD1858 | D501 | : RN739F |
| Q151 | : DTA114YUA | D502,503 | : KP2311ETR-G |
| Q152 | : 2SA1577 | D504 | : KV1430STL-G |
| Q153 | : DTC114YUA | D506 | : HVC383B-E |
| Q252 | : 2SA1576A | | |
| Q330 | : DTA124EUA | | |
| Q351,352 | : DTC143TUA | | |
| Q501 | : HN3G01J(BL)-F | | |


IC10
E-VOL & TUNER
IC6
MUTE LOGIC
*IC1
SYSTEM u-C
IC11
E2PROM
D203
D403
L602
L509
L601
CF53
10.700MHz
CF54
450.000kHz
X501
10.250MHz
FL+B SW
PANEL 5V SW
EJECT ILLUMI
EJECT SW
CN2
to CD PLAYER UNIT (X
A
2/2
X16-J1
ESD GND
TDF DET
RTRY CCW
REMOTE
VFD DATAS
VFD CLK
VFD CE
VFD DATAF
VFD RST
RST
ILL+B
FL+B
RTRY CW
PAN5V
ILL D GND
D-OUT
CD DISC12 SW
CD LOS SW
CD SCL
CD SDA
AUDIO+B
Lch
GND
Rch
CD MUTE R
CD MUTE L
CD MRST
CD MSTOP
CD DISC8
TUN SD
LX RST
LX CON
LX REQ M
AUD SDA
AUD SCL
PWIC STBY
VOL MUTE
PWIC MUTE
RDS AFSM
RESET2
RDS DATA
VSS1
RDS QUAL
ACC DET
BU DET
PON
PS2 2
PS2 1
PS1 3
KEY CDEJ
PON CD
CD MUTE
CD MSTOP
CD LOE LIM SW
CD LOEJ
CD MOTOR
CD DISC8 SW
CD MRST
CD SCL
CD DISC12 SW
CD LOS SW
TUN AD
RDS AFSL
LX CLK
LX DATA M
LX DATA S
PWIC BEEP
TDF DET
ROTARY CCW
VFD CE
VFD RST
VFD CLK
VFD DATAS
VFD DATAF
AVREF
VCCIF1
IF1AMP2IN
AMREFDEMC
AMDET
IF1AMP2OUT
AMRFAGCTC
FMMIX2IN2
FMMIX2IN1
VCC2
AMMIX2OUT1
AMMIX2OUT2
GND2
VREF1
AMIFIN
GNDDEM
FMREFDEMC
AMIFREE
MPXOUT
MPXIN
APVCC
IN2L
IN2R
FSW
AFS
QUALITYOUT
SMUTE
FSU
DCOUT
SSTOP
WININ
APGND
OUTRR
ISSTC2
ISSTC1
XTALG
XTALD
GND
SDA
SCL
VCC1 (DIG)
IN1L
IN1C
IN1R
OUTFR
OUTFL
OUTRL
RL
FL
FR
R
G
L
+8V-A
+8V
+B
+5V
Q153
Q152
Q151
Q156
Q154
TP433
TP434
TP510
TP504
TP430
TP431
TP410
TP409
TP414
TP317
TP165
TP166
W367

# KDC-MP5029/W5031 /W5031Y/W531Y



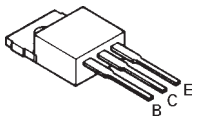



KDC-MP5029/W5031/W5031Y/W531Y (1/2)

(X34-339x-xx)

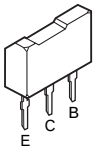
| MODEL NAME | DESTINATION | UNIT No. | Ⓐ | Ⓑ | Ⓔ | ① | C20 | C73 | C255 | C333, 334 | D162, 260 | IC1 | IC4 | L2 | L301 | R89, 411 | R162,312, 313,415,480 | R172 | R251 | R255 | R256 | R257 | R412 | R413 | R414 | R416 | R431, 470 | R450-452 | R471 | W51 | W57, 367 | W251,346, 368,377 | W252 | W420 | WH1 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KDC-3028 | K | 0-12 | — | YES | — | YES | YES | YES | 33u10 | — | YES | 78425GC280A | E-TDA7560A | YES | YES | YES | YES | YES | 33K | 220 | 22K | 30K | — | YES | — | — | — | — | YES | — | — | — | YES | — | YES | — |
| KDC-328 | K | 0-11 | — | YES | — | YES | YES | YES | 33u10 | — | YES | 78425GC280A | E-TDA7560A | YES | YES | YES | YES | YES | 33K | 220 | 22K | 30K | — | YES | — | — | — | — | YES | — | — | — | YES | — | YES | — |
| KDC-MP5029 | M | 0-21 | — | YES | YES | YES | — | YES | 33u10 | — | YES | 78425GC279A | E-TDA7560A | — | YES | YES | — | YES | — | 220 | 22K | 30K | — | — | YES | — | — | — | YES | — | — | — | YES | — | YES | — |
| KDC-W5031/Y | E | 2-71 | YES | YES | YES | — | — | — | 33u10 | YES | YES | 78425GC279A | E-TDA7560A | — | YES | — | YES | YES | 33K | 220 | 22K | 30K | YES | YES | — | — | YES | — | — | YES | — | — | YES | YES | YES | E30-6403-05 |
| KDC-W531Y | E | 2-72 | — | — | — | YES | — | — | 10u16 | YES | — | 78425GC279A | TB2904HQ | — | — | — | — | — | 150K | 330 | 150K | 12K | YES | YES | — | YES | — | — | YES | — | — | YES | YES | YES | YES | — |

2SB1565

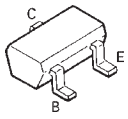



DTA114EE
DTC114YUA
DTC143TUA
2SA1036K
2SA1576A
2SC4617

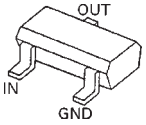

2SD1858



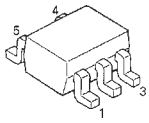

2SC4081




DTA124EUA
DTC124EUA



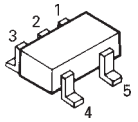

UMC2N




DAN202U


DA204U
DTA114YUA

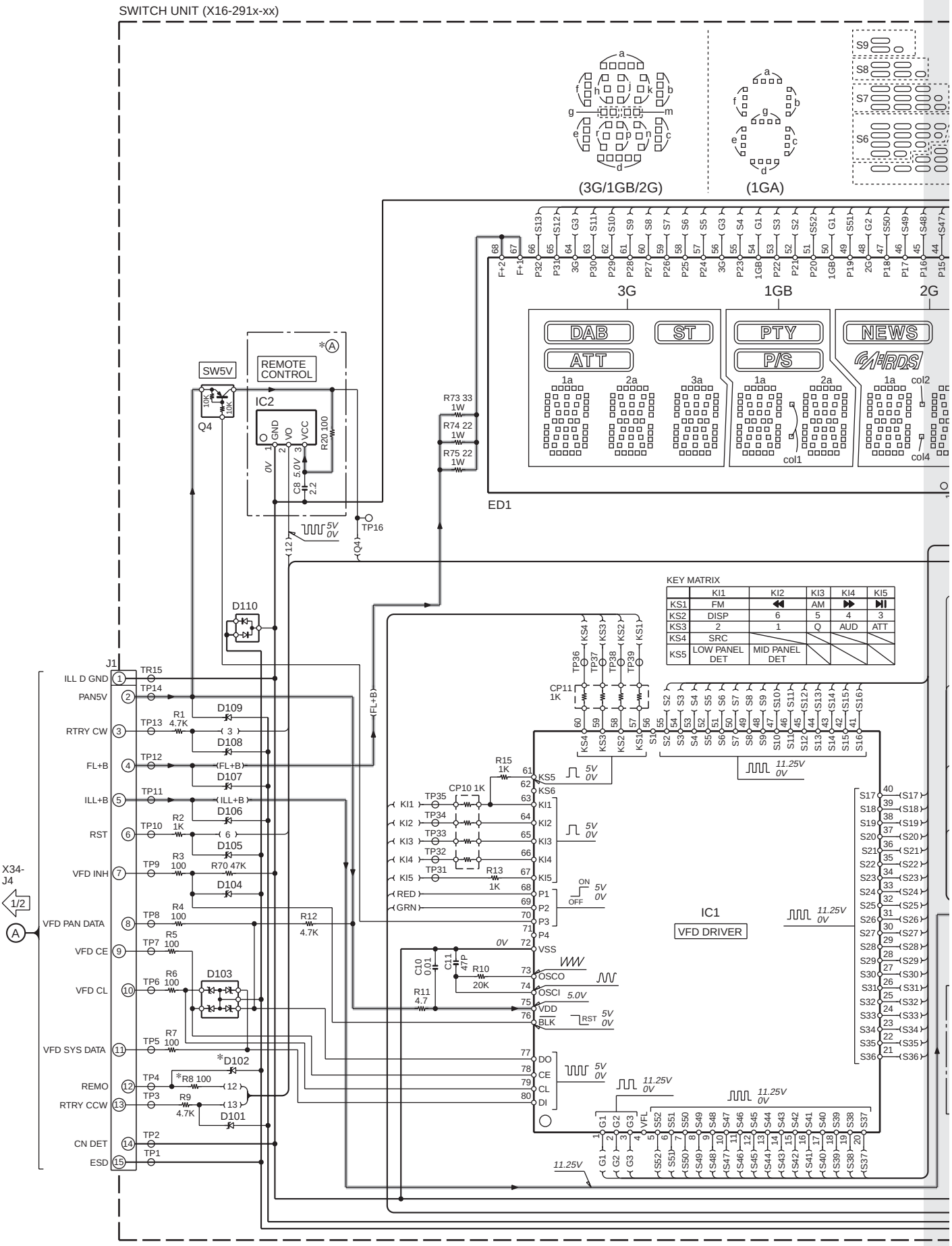

TC7SH08FU

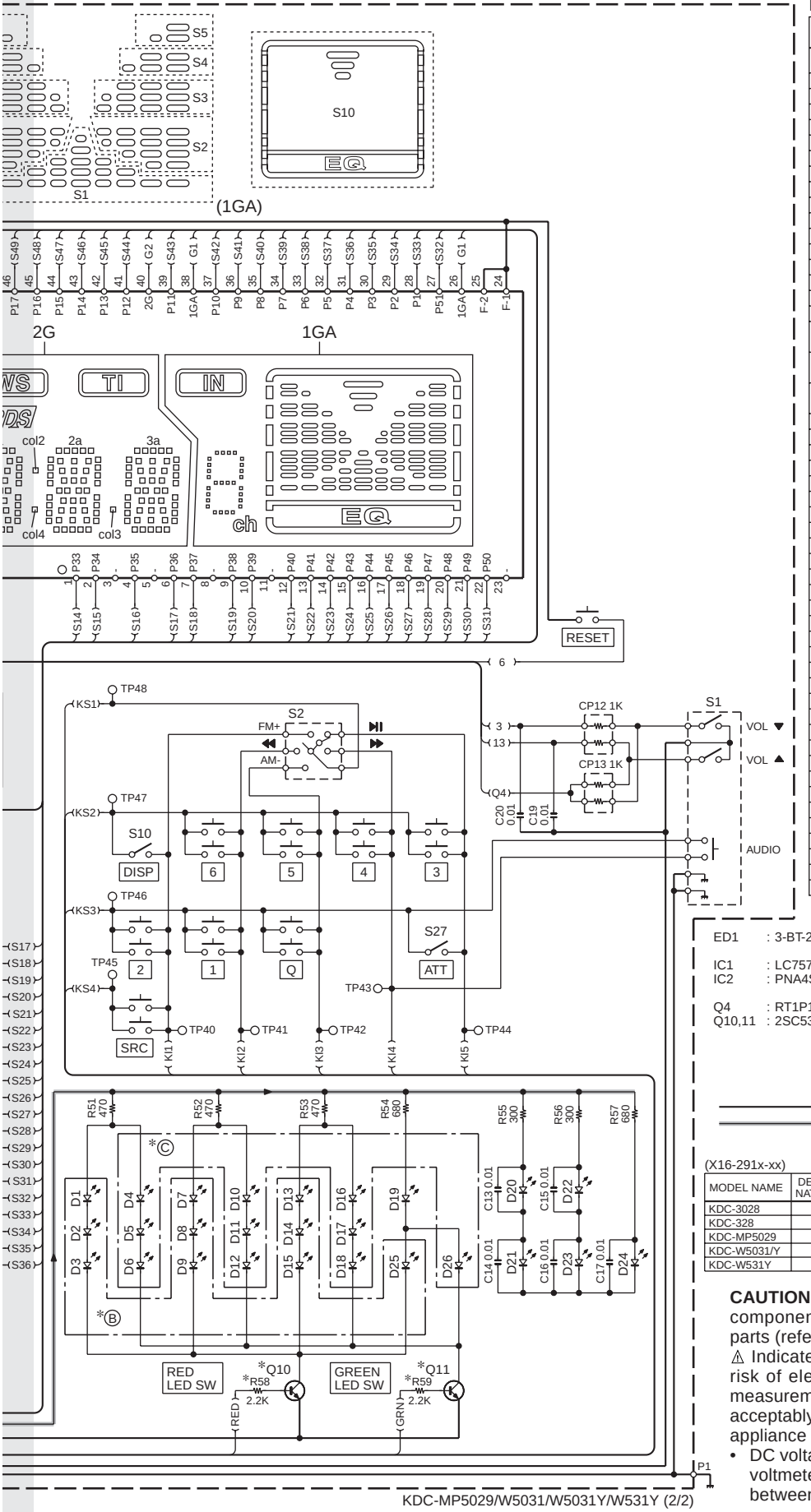



**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

# KDC-MP5029/W5031 /W5031Y/W531Y






ED1 : ANODE CONNECTION

| PIN NAME | 3G | 2G | 1GA,1GB |
|---|---|---|---|
| P1 | 1d | 3d | ch |
| P2 | 1n | 3n | d |
| P3 | 1p | 3p | e |
| P4 | 1r | 3r | c |
| P5 | 1e | 3e | g |
| P6 | 1c | 3c | f |
| P7 | 1g | 3g | b |
| P8 | 1m | 3m | a |
| P9 | 1f | 3f | S1 |
| P10 | 1b | 3b | S2 |
| P11 | 1k | 3k | S3 |
| P12 | 1j | 3j | S4 |
| P13 | 1h | 3h | S5 |
| P14 | 1a | 3a | S6 |
| P15 | — | — | S7 |
| P16 | — | — | S8 |
| P17 | — | — | S9 |
| P18 | ATT | TI | IN |
| P19 | DAB | NEWS | P/S |
| P20 | ST | RDS | PTY |
| P21 | 2a | 1a | 1a |
| P22 | 3a | 2a | 2a |
| P23 | 2h | 1h | 1h |
| P24 | 3h | 2h | 2h |
| P25 | 2j | 1j | 1j |
| P26 | 3j | 2j | 2j |
| P27 | 2k | 1k | 1k |
| P28 | 3k | 2k | 2k |
| P29 | 2b | 1b | 1b |
| P30 | 3b | 2b | 2b |
| P31 | 2f | 1f | 1f |
| P32 | 3f | 2f | 2f |
| P33 | 3d | 2d | 2d |
| P34 | 2d | 1d | 1d |
| P35 | 3n | 2n | 2n |
| P36 | 2n | 1n | 1n |
| P37 | 3p | 2p | 2p |
| P38 | — | col2 | col1 |
| P39 | 2m | 1m | 1m |
| P40 | 3m | 2m | 2m |
| P41 | 2g | 1g | 1g |
| P42 | 3g | 2g | 2g |
| P43 | 2c | 1c | 1c |
| P44 | 3c | 2c | 2c |
| P45 | 2e | 1e | 1e |
| P46 | 3e | 2e | 2e |
| P47 | 2r | 1r | 1r |
| P48 | — | col4 | — |
| P49 | 3r | 2r | 2r |
| P50 | — | col3 | S10 |
| P51 | 2p | 1p | 1p |

ED1 : 3-BT-225N
IC1 : LC75756W
IC2 : PNA4S22M
Q4 : RT1P141U
Q10,11 : 2SC5383(E,F)

D1-3,7-9,13-15,19,25 : B30-1566-05 (COLOR: RED )
D4-6,10-12,16-18,26 : B30-1565-05 (COLOR: PG)
D20-24 : B30-1729-05 (COLOR: BLUE)
D101,102,104,105,107-109 : 02DZ6.8F-Y
D103 : FTZ6.8E
D106 : 02DZ12F-X
D110 : DA204U

GND LINE
+B LINE

(X16-291x-xx)

| MODEL NAME | DESTI-NATION | UNIT No. | Ⓐ | Ⓑ | Ⓒ | D102 | Q10 | Q11 | R8 | R58 | R59 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KDC-3028 | K | 0-11 | YES | YES | — | YES | YES | — | YES | YES | — |
| KDC-328 | K | | | | | | | | | | |
| KDC-MP5029 | M | 0-22 | YES | — | YES | YES | — | YES | YES | — | YES |
| KDC-W5031/Y | E | 2-71 | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| KDC-W531Y | E | 2-72 | — | YES | YES | — | YES | YES | — | YES | YES |

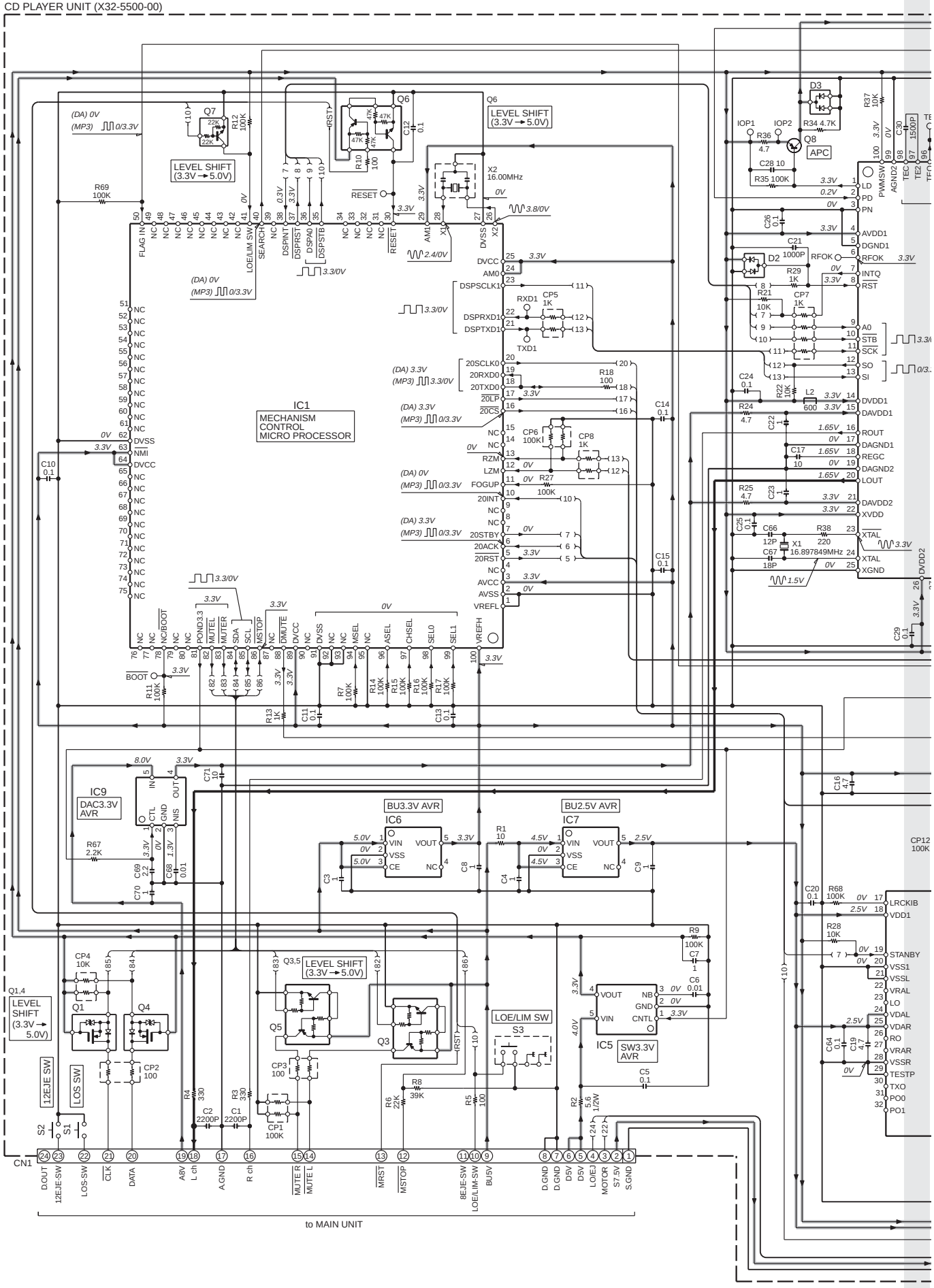
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

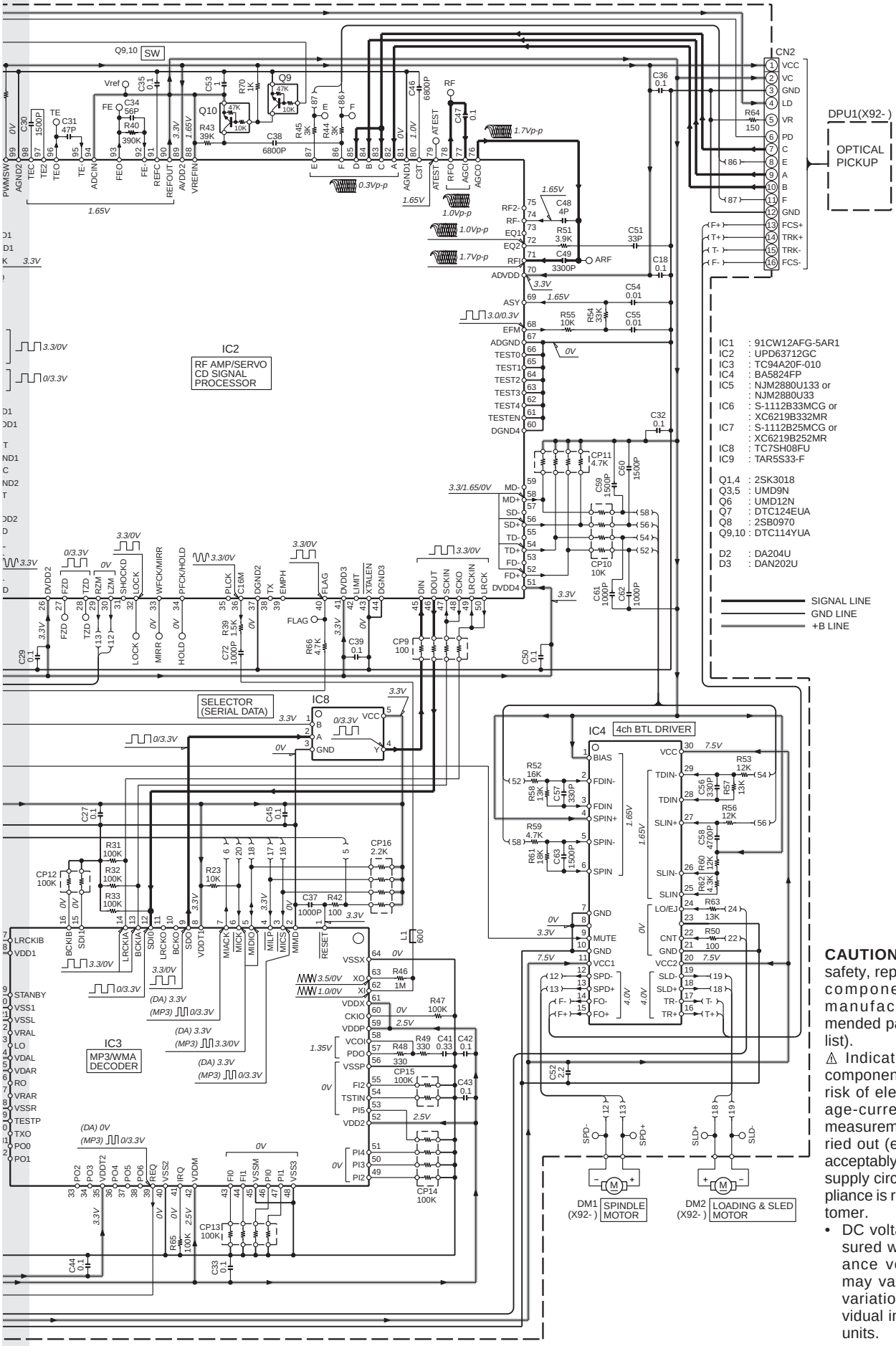
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KDC-MP5029/W5031/W5031Y/W531Y (2/2)

# KDC-MP5029/W5031 /W5031Y/W531Y

CD PLAYER UNIT (X32-5500-00)



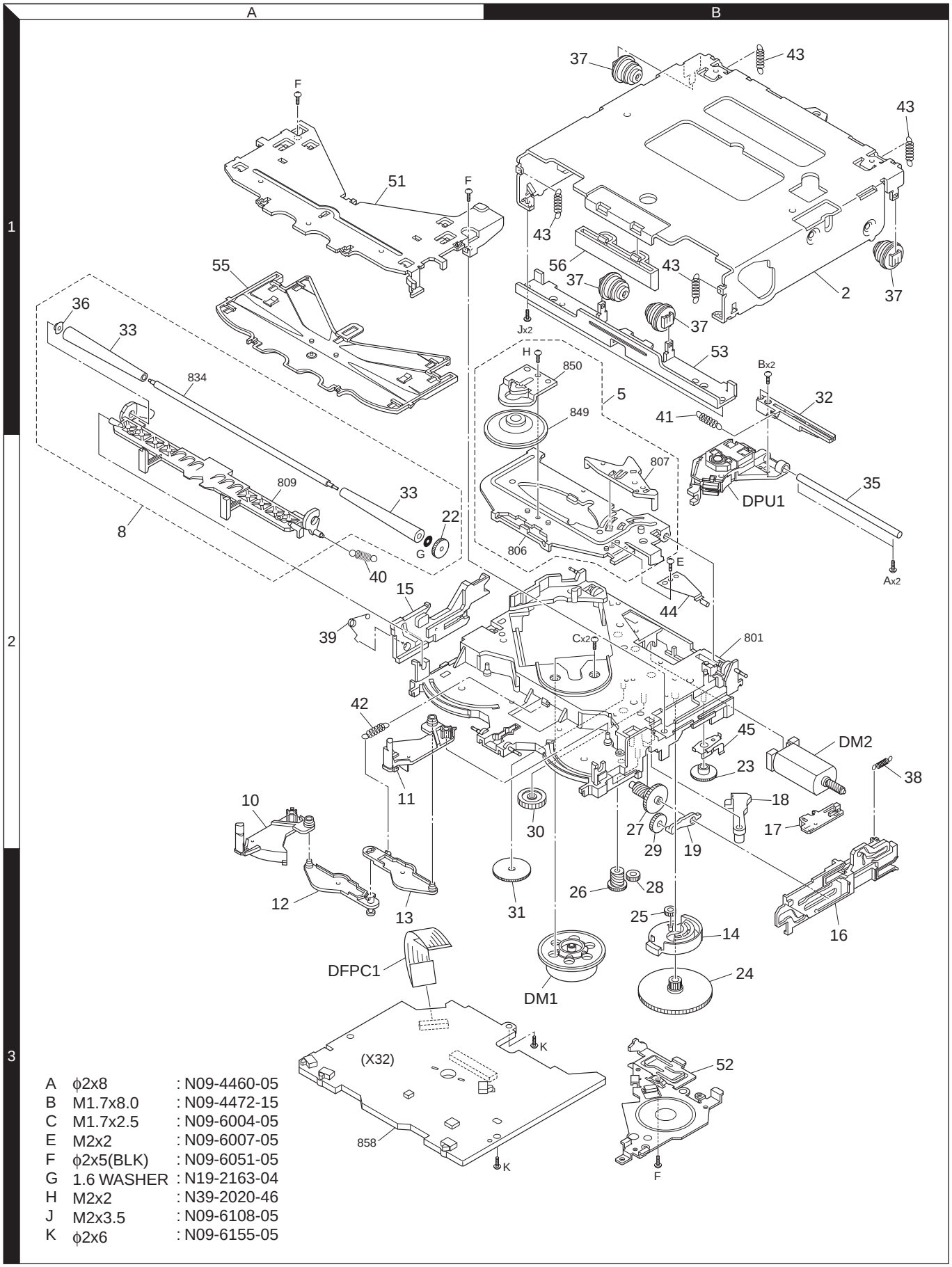



**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

# EXPLODED VIEW (CD MECHANISM)

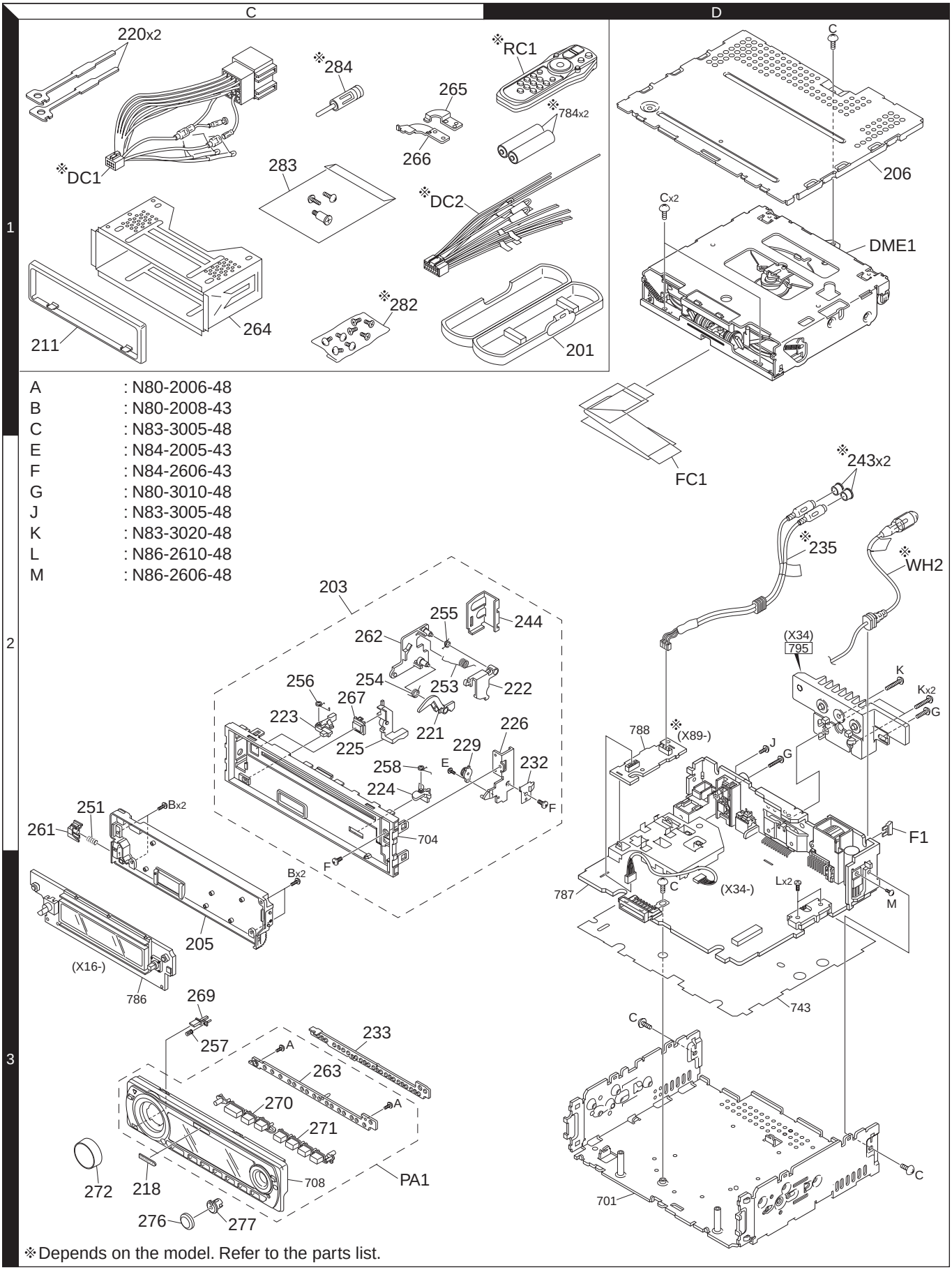



| | | |
|---|---|---|
| A | ϕ2x8 | : N09-4460-05 |
| B | M1.7x8.0 | : N09-4472-15 |
| C | M1.7x2.5 | : N09-6004-05 |
| E | M2x2 | : N09-6007-05 |
| F | ϕ2x5(BLK) | : N09-6051-05 |
| G | 1.6 WASHER | : N19-2163-04 |
| H | M2x2 | : N39-2020-46 |
| J | M2x3.5 | : N09-6108-05 |
| K | ϕ2x6 | : N09-6155-05 |



**Parts with the exploded numbers larger than 700 are not supplied.**

# EXPLODED VIEW (UNIT)




※Depends on the model. Refer to the parts list.

# PARTS LIST

✻ New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| **KDC-MP5029/W5031/W5031Y/W531Y** | | | | | |
| 201 | 2C | ✻ | A02-2743-03 | PLASTIC CABINET ASSY | |
| 203 | 2C | ✻ | A22-3059-12 | SUB PANEL ASSY | |
| 205 | 3D | ✻ | A46-1816-01 | REAR COVER | |
| 206 | 1D | | A52-0804-12 | TOP PLATE | |
| PA1 | 3C | ✻ | A64-3484-12 | PANEL ASSY | M2 |
| PA1 | 3C | ✻ | A64-3485-02 | PANEL ASSY | E1E2 |
| PA1 | 3C | ✻ | A64-3488-02 | PANEL ASSY | E3 |
| RC1 | 1D | | A70-2069-05 | REMOTE CONTROLLER ASSY (RC-517) | M2 |
| - | | | B46-0100-50 | WARRANTY CARD | M2E1 |
| - | | | B46-0606-04 | ID CARD | E3 |
| - | | | B46-0612-14 | ID CARD | M2E1E2 |
| - | | ✻ | B64-2950-00 | INST. MANUAL (ENG, T-CHI) | M2 |
| - | | ✻ | B64-2951-00 | INST. MANUAL (ARABIC) | M2 |
| - | | ✻ | B64-2952-00 | INST. MANUAL (ENGLISH) | E1E2E3 |
| - | | ✻ | B64-2953-00 | INST. MANUAL (FRE,GER, DUT) | E1 |
| - | | ✻ | B64-2954-00 | INST. MANUAL (ITA, SPA, POR) | E1 |
| - | | ✻ | B64-2955-00 | INST. MANUAL (RUSSIAN) | E2E3 |
| 211 | 1C | | B07-3122-01 | ESCUTCHEON | |
| 218 | 3C | | B43-1518-04 | BADGE | |
| 220 | 1C | | D10-4589-04 | LEVER | |
| 221 | 2C | ✻ | D10-4865-03 | LEVER | |
| 222 | 2D | ✻ | D10-4866-03 | LEVER | |
| 223 | 2C | ✻ | D10-4867-04 | LEVER | |
| 224 | 2C | ✻ | D10-4868-04 | LEVER | |
| 225 | 2C | ✻ | D10-4869-03 | LEVER | |
| 226 | 2D | ✻ | D10-4870-04 | ARM ASSY | |
| 229 | 2C | | D39-0255-05 | DAMPER | |
| 232 | 2D | ✻ | E29-2028-04 | LEAD PLATE | |
| 233 | 3C | ✻ | E29-2029-03 | CONDUCTIVE RUBBER | |
| 235 | 2D | | E30-6229-05 | CORD WITH PINPLUG | M2E1E2 |
| ⚠ DC1 | 1C | | E30-6413-05 | DC CORD | E1E2E3 |
| ⚠ DC2 | 1C | | E30-6415-15 | DC CORD | M2 |
| FC1 | 2D | | E39-0718-05 | FLAT CABLE | |
| WH2 | 2D | | E30-6403-05 | WIRING HARNESS | E1E2 |
| 243 | 2D | | F29-0626-04 | INSULATING COVER | M2E1E2 |
| 244 | 2D | ✻ | F31-0716-04 | REINFORCING HARDWARE | |
| ⚠ F1 | 2D | | F52-0006-05 | FUSE (MINI BLADE TYPE) (10A) | |
| 251 | 2C | | G01-3173-04 | COMPRESSION SPRING | |
| 253 | 2C | ✻ | G01-3246-04 | TORSION COIL SPRING | |
| 254 | 2C | ✻ | G01-3247-04 | TORSION COIL SPRING | |
| 255 | 2C | ✻ | G01-3248-04 | TORSION COIL SPRING | |
| 256 | 2C | ✻ | G01-3249-04 | TORSION COIL SPRING | |
| 257 | 3C | ✻ | G01-3250-04 | COMPRESSION SPRING | |
| 258 | 2C | ✻ | G01-3270-04 | TORSION COIL SPRING | |
| - | | | H10-4919-12 | POLYSTYRENE FOAMED FIXTURE | |
| - | | | H25-0329-04 | PROTECTION BAG (280X450X0.03) | M2E2E3 |
| - | | | H25-0337-04 | PROTECTION BAG (180X300X0.03) | |
| - | | | H25-1111-04 | PROTECTION BAG (280X450X0.03) | E1 |
| - | | ✻ | H54-3281-13 | ITEM CARTON CASE (KDC-MP5029) | M2 |
| - | | ✻ | H54-3282-03 | ITEM CARTON CASE (KDC-W5031) | E1 |
| - | | ✻ | H54-3283-03 | ITEM CARTON CASE (KDC-W5031Y) | E2 |
| - | | ✻ | H54-3331-03 | ITEM CARTON CASE (KDC-W531Y) | E3 |
| 261 | 2C | | J19-5205-03 | HOLDER | |
| 262 | 2C | ✻ | J19-7049-03 | HOLDER | |
| 263 | 3C | ✻ | J19-7050-02 | HOLDER | |
| 264 | 1C | | J22-0011-03 | MOUNTING HARDWARE ASSY | |
| 265 | 1C | ✻ | J22-0258-04 | MOUNTING HARDWARE (L) | |
| 266 | 1C | ✻ | J22-0259-04 | MOUNTING HARDWARE (R) | |
| 267 | 2C | ✻ | K24-4282-04 | PUSH KNOB (EJECT) | |
| 269 | 3C | ✻ | K24-4285-04 | PUSH KNOB (RELEASE) | |
| 270 | 3C | ✻ | K25-1692-03 | PUSH KNOB (Q, SRC, 1, 2) | |
| 271 | 3C | ✻ | K25-1694-03 | PUSH KNOB (3, 4, 5, 6) | |
| 272 | 3C | | K29-7132-03 | KNOB ASSY (VOL) | |
| 276 | 3C | | K29-7139-03 | KEY TOP (FM/AM) | M2E1E2 |
| 276 | 3C | | K29-7140-03 | KEY TOP (FM/AM) | E3 |
| 277 | 3C | ✻ | K29-7141-03 | KNOB BASE (FM/AM) | |
| 282 | 1C | | N99-1757-05 | SCREW SET | M2 |
| 283 | 1C | ✻ | N99-1763-05 | SCREW SET | |
| A | 3C | | N80-2006-48 | PAN HEAD TAPTITE SCREW | |
| B | 2C | | N80-2008-43 | PAN HEAD TAPTITE SCREW | |
| C | 1D | | N83-3005-48 | PAN HEAD TAPTITE SCREW | |
| E | 2C | | N84-2005-43 | PAN HEAD TAPTITE SCREW | |
| F | 2C | | N84-2606-43 | PAN HEAD TAPTITE SCREW | |
| L | 3D | | N86-2610-48 | BINDING HEAD TAPTITE SCREW | |
| 284 | 1C | | T90-0523-05 | ANTENNA ADAPTOR | E1E2E3 |
| DME1 | 1D | | X92-4850-00 | MECHANISM ASSY | |
| **SWITCH UNIT (X16-291x-xx)** | | | | | |
| D1-3 | | | B30-1566-05 | LED (RED) | E1E2E3 |
| D4-6 | | | B30-1565-05 | LED (PG) | |
| D7-9 | | | B30-1566-05 | LED (RED) | E1E2E3 |
| D10-12 | | | B30-1565-05 | LED (PG) | |
| D13-15 | | | B30-1566-05 | LED (RED) | E1E2E3 |
| D16-18 | | | B30-1565-05 | LED (PG) | |
| D19 | | | B30-1566-05 | LED (RED) | |
| D20-24 | | | B30-1729-05 | LED (BLUE) | |
| D25 | | | B30-1566-05 | LED (RED) | E1E2E3 |
| D26 | | | B30-1565-05 | LED (PG) | |
| C8 | | | CK73FB1A225K | CHIP C 2.2UF K | M2E1E2 |
| C10 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C11 | | | CC73GCH1H470J | CHIP C 47PF J | |
| C13-17 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C19,20 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| J1 | | | E59-0840-05 | RECTANGULAR PLUG | |
| CP10,11 | | | RK74HB1J102J | CHIP-COM 1.0K J 1/16W | |
| CP12,13 | | | RK74GA1J102J | CHIP-COM 1.0K J 1/16W | |
| R1 | | | RK73EB2E472J | CHIP R 4.7K J 1/4W | |
| R2 | | | RK73EB2E102J | CHIP R 1.0K J 1/4W | |
| R3-7 | | | RK73EB2E101J | CHIP R 100 J 1/4W | E3 |
| R3-8 | | | RK73EB2E101J | CHIP R 100 J 1/4W | M2E1E2 |
| R9 | | | RK73EB2E472J | CHIP R 4.7K J 1/4W | |
| R10 | | | RK73GB2A203J | CHIP R 20K J 1/10W | |

**E1** : KDC-W5031 **E2** : KDC-W5031Y **E3** : KDC-W531Y **M2** : KDC-MP5029
(**E** : Europe **K** : North America **M** : Other Areas **W** : Without Europe)

⚠ Indicates safety critical components.

# PARTS LIST

## SWITCH UNIT (X16-291x-xx)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| R11 | | | RK73GB2A4R7J | CHIP R 4.7 J 1/10W | |
| R12 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R13 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R15 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R20 | | | RK73GB2A101J | CHIP R 100 J 1/10W | M2E1E2 |
| R51-53 | | | RK73FB2B471J | CHIP R 470 J 1/8W | |
| R54 | | | RK73EB2E681J | CHIP R 680 J 1/4W | |
| R55,56 | | | RK73FB2B301J | CHIP R 300 J 1/8W | |
| R57 | | | RK73EB2E681J | CHIP R 680 J 1/4W | |
| R58,59 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | E1E2E3 |
| R59 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | M2 |
| R70 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R73 | | | RK73SB3A330J | CHIP R 33 J 1W | |
| R74,75 | | ✻ | RK73SB3A220J | CHIP R 22 J 1W | |
| S2 | | | S70-0106-05 | TACT SWITCH | |
| S10 | | | S70-0051-15 | TACT SWITCH | |
| S27 | | | S70-0051-15 | TACT SWITCH | |
| S1 | | | T99-0457-05 | ROTARY ENCODER | |
| D101 | | | 02DZ6.8F-Y | ZENER DIODE | E3 |
| D101,102 | | | 02DZ6.8F-Y | ZENER DIODE | M2E1E2 |
| D103 | | | FTZ6.8E | ZENER DIODE | |
| D104,105 | | | 02DZ6.8F-Y | ZENER DIODE | |
| D106 | | ✻ | 02DZ12F-X | ZENER DIODE | |
| D107-109 | | | 02DZ6.8F-Y | ZENER DIODE | |
| D110 | | | DA204U | DIODE | |
| ED1 | | ✻ | 3-BT-225N | FLUORESCENT INDICATOR TUBE | |
| IC1 | | | LC75756W | MOS-IC | |
| IC2 | | | PNA4S22M | ANALOGUE IC | M2E1E2 |
| Q4 | | | DTA114EE | DIGITAL TRANSISTOR | |
| Q4 | | | KRA302E-P | DIGITAL TRANSISTOR | |
| Q4 | | | RT1P141U | DIGITAL TRANSISTOR | |
| Q10,11 | | | KTC4075EP (Y,GR) | TRANSISTOR | E1E2E3 |
| Q10,11 | | | 2SC4617 | TRANSISTOR | E1E2E3 |
| Q10,11 | | | 2SC5383 (E,F) | TRANSISTOR | E1E2E3 |
| Q11 | | | KTC4075EP (Y,GR) | TRANSISTOR | M2 |
| Q11 | | | 2SC4617 | TRANSISTOR | M2 |
| Q11 | | | 2SC5383 (E,F) | TRANSISTOR | M2 |

## CD PLAYER UNIT (X32-5500-00)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| C1,2 | | | CK73GB1H222K | CHIP C 2200PF K | |
| C3,4 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C5 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C6 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C7-9 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C10-15 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C16 | | | CK73FB0J475K | CHIP C 4.7UF K | |
| C17 | | | CK73FB0J106M | CHIP C 10UF M | |
| C18 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C19 | | | CK73FB0J475K | CHIP C 4.7UF K | |
| C20 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C21 | | | CK73GB1H102K | CHIP C 1000PF K | |
| C22,23 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C24-27 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C28 | | | CK73FB0J106M | CHIP C 10UF M | |
| C29 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C30 | | | CK73GB1H152K | CHIP C 1500PF K | |
| C31 | | | CC73GCH1H470J | CHIP C 47PF J | |
| C32,33 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C34 | | | CC73GCH1H560J | CHIP C 56PF J | |
| C35,36 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C37 | | | CK73GB1H102K | CHIP C 1000PF K | |
| C38 | | | CK73GB1H682K | CHIP C 6800PF K | |
| C39 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C41 | | | CK73GB1A334K | CHIP C 0.33UF K | |
| C42-45 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C46 | | | CK73GB1H682K | CHIP C 6800PF K | |
| C47 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C48 | | | CC73GCH1H040C | CHIP C 4.0PF C | |
| C49 | | | CK73GB1H332K | CHIP C 3300PF K | |
| C50 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C51 | | | CC73GCH1H330J | CHIP C 33PF J | |
| C52 | | | CK73FB1A225K | CHIP C 2.2UF K | |
| C53 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C54,55 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C56,57 | | | CK73GB1H331K | CHIP C 330PF K | |
| C58 | | | CK73GB1H472K | CHIP C 4700PF K | |
| C59,60 | | | CK73GB1H152K | CHIP C 1500PF K | |
| C61,62 | | | CK73GB1H102K | CHIP C 1000PF K | |
| C63 | | | CK73GB1H152K | CHIP C 1500PF K | |
| C64 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C66 | | | CC73GCH1H120J | CHIP C 12PF J | |
| C67 | | | CC73GCH1H180J | CHIP C 18PF J | |
| C68 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C69 | | | CK73FB1A225K | CHIP C 2.2UF K | |
| C70 | | | CK73FB1A105K | CHIP C 1.0UF K | |
| C71 | | | CK73FB0J106M | CHIP C 10UF M | |
| C72 | | | CK73GB1H102K | CHIP C 1000PF K | |
| CN1 | | | E41-2083-05 | FLAT CABLE CONNECTOR | |
| CN2 | | | E41-2068-05 | FLAT CABLE CONNECTOR | |
| CN2 | | | E41-2297-05 | FLAT CABLE CONNECTOR | |
| L1,2 | | | L92-0386-05 | CHIP FERRITE | |
| X1 | | | L77-2808-05 | CRYSTAL RESONATOR (16.897849MHZ) | |
| X2 | | | L78-0896-05 | RESONATOR (16.00MHZ) | |
| CP1 | | | RK74GA1J104J | CHIP-COM 100K J 1/16W | |
| CP2,3 | | | RK74GA1J101J | CHIP-COM 100 J 1/16W | |
| CP4 | | | RK74GA1J103J | CHIP-COM 10K J 1/16W | |
| CP5 | | | RK74GA1J102J | CHIP-COM 1.0K J 1/16W | |
| CP6 | | | RK74GA1J104J | CHIP-COM 100K J 1/16W | |
| CP7 | | | RK74GB1J102J | CHIP-COM 1.0K J 1/16W | |
| CP8 | | | RK74GA1J102J | CHIP-COM 1.0K J 1/16W | |
| CP9 | | | RK74GB1J101J | CHIP-COM 100 J 1/16W | |
| CP10 | | | RK74GB1J103J | CHIP-COM 10K J 1/16W | |
| CP11 | | | RK74GB1J472J | CHIP-COM 4.7K J 1/16W | |
| CP12 | | | RK74GA1J104J | CHIP-COM 100K J 1/16W | |
| CP13,14 | | | RK74GB1J104J | CHIP-COM 100K J 1/16W | |
| CP15 | | | RK74GA1J104J | CHIP-COM 100K J 1/16W | |
| CP16 | | | RK74GB1J222J | CHIP-COM 2.2K J 1/16W | |
| R1 | | | RK73GB2A100J | CHIP R 10 J 1/10W | |

**E1** : KDC-W5031 **E2** : KDC-W5031Y **E3** : KDC-W531Y **M2** : KDC-MP5029
(**E** : Europe **K** : North America **M** : Other Areas **W** : Without Europe)

⚠ Indicates safety critical components.

# PARTS LIST

## CD PLAYER UNIT (X32-5500-00)

| Ref. No. | Add | New | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| R2 | | | R92-3494-05 | CHIP R 5.6 | F | 1/2W | |
| R3,4 | | | RK73FB2B331J | CHIP R 330 | J | 1/8W | |
| R5 | | | RK73GB2A101J | CHIP R 100 | J | 1/10W | |
| R6 | | | RN73GH1J223D | CHIP R 22K | D | 1/16W | |
| R7 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R8 | | | RN73GH1J393D | CHIP R 39K | D | 1/16W | |
| R9 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R10 | | | RK73GB2A101J | CHIP R 100 | J | 1/10W | |
| R11,12 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R13 | | | RK73GB2A102J | CHIP R 1.0K | J | 1/10W | |
| R14-17 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R18 | | | RK73GB2A101J | CHIP R 100 | J | 1/10W | |
| R21-23 | | | RK73GB2A103J | CHIP R 10K | J | 1/10W | |
| R24,25 | | | RK73GB2A4R7J | CHIP R 4.7 | J | 1/10W | |
| R27 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R28 | | | RK73GB2A103J | CHIP R 10K | J | 1/10W | |
| R29 | | | RK73GB2A102J | CHIP R 1.0K | J | 1/10W | |
| R31-33 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R34 | | | RK73GB2A472J | CHIP R 4.7K | J | 1/10W | |
| R35 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R36 | | | RK73FB2B4R7J | CHIP R 4.7 | J | 1/8W | |
| R37 | | | RK73GB2A103J | CHIP R 10K | J | 1/10W | |
| R38 | | | RK73GB2A221J | CHIP R 220 | J | 1/10W | |
| R39 | | | RK73GB2A152J | CHIP R 1.5K | J | 1/10W | |
| R40 | | | RK73GB2A394J | CHIP R 390K | J | 1/10W | |
| R42 | | | RK73GB2A101J | CHIP R 100 | J | 1/10W | |
| R43 | | | RK73GB2A393J | CHIP R 39K | J | 1/10W | |
| R44,45 | | | RK73GB2A302J | CHIP R 3.0K | J | 1/10W | |
| R46 | | | RK73GB2A105J | CHIP R 1.0M | J | 1/10W | |
| R47 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R48,49 | | | RK73GB2A331J | CHIP R 330 | J | 1/10W | |
| R50 | | | RK73GB2A101J | CHIP R 100 | J | 1/10W | |
| R51 | | | RK73GB2A392J | CHIP R 3.9K | J | 1/10W | |
| R52 | | | RK73GB2A163J | CHIP R 16K | J | 1/10W | |
| R53 | | | RK73GB2A123J | CHIP R 12K | J | 1/10W | |
| R54 | | | RK73GB2A333J | CHIP R 33K | J | 1/10W | |
| R55 | | | RK73GB2A103J | CHIP R 10K | J | 1/10W | |
| R56 | | | RK73GB2A123J | CHIP R 12K | J | 1/10W | |
| R57,58 | | | RK73GB2A133J | CHIP R 13K | J | 1/10W | |
| R59 | | | RK73GB2A472J | CHIP R 4.7K | J | 1/10W | |
| R60 | | | RK73GB2A123J | CHIP R 12K | J | 1/10W | |
| R61 | | | RK73GB2A183J | CHIP R 18K | J | 1/10W | |
| R62 | | | RK73GB2A432J | CHIP R 4.3K | J | 1/10W | |
| R63 | | | RK73GB2A133J | CHIP R 13K | J | 1/10W | |
| R64 | | | RK73GB2A151J | CHIP R 150 | J | 1/10W | |
| R65 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R66 | | | RK73GB2A472J | CHIP R 4.7K | J | 1/10W | |
| R67 | | | RK73GB2A222J | CHIP R 2.2K | J | 1/10W | |
| R68,69 | | | RK73GB2A104J | CHIP R 100K | J | 1/10W | |
| R70 | | | RK73GB2A102J | CHIP R 1.0K | J | 1/10W | |
| S1,2 | | | S68-0863-05 | PUSH SWITCH | | | |
| S3 | | | S68-0862-05 | PUSH SWITCH | | | |
| D2 | | | DA204U | DIODE | | | |
| D3 | | | DAN202U | DIODE | | | |

| Ref. No. | Add | New | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| IC1 | | | 91CW12AFG-5AR1 | MICROCONTROLLER IC | | | |
| IC2 | | | UPD63712GC | MOS-IC | | | |
| IC3 | | | TC94A20F-010 | MOS-IC | | | |
| IC4 | | | BA5824FP | ANALOGUE IC | | | |
| IC5 | | | NJM2880U133 | ANALOGUE IC | | | |
| IC5 | | | NJM2880U33 | ANALOGUE IC | | | |
| IC6 | | | S-1112B33MCG | ANALOGUE IC | | | |
| IC6 | | | XC6219B332MR | ANALOGUE IC | | | |
| IC7 | | | S-1112B25MCG | ANALOGUE IC | | | |
| IC7 | | | XC6219B252MR | ANALOGUE IC | | | |
| IC8 | | | TC7SH08FU | MOS-IC | | | |
| IC9 | | | TAR5S33-F | ANALOGUE IC | | | |
| Q1 | | | 2SK3018 | FET | | | |
| Q3 | | | UMD9N | DIGITAL TRANSISTOR | | | |
| Q4 | | | 2SK3018 | FET | | | |
| Q5 | | | UMD9N | DIGITAL TRANSISTOR | | | |
| Q6 | | | UMD12N | DIGITAL TRANSISTOR | | | |
| Q7 | | | DTC124EUA | DIGITAL TRANSISTOR | | | |
| Q8 | | | 2SB0970 | TRANSISTOR | | | |
| Q9,10 | | | DTC114YUA | DIGITAL TRANSISTOR | | | |

## ELECTRIC UNIT (X34-339x-xx)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| D166 | | * | B30-1710-05 | LED (RED) | | | |
| C1,2 | | | CD04AT1HR47M | ELECTRO | 0.47UF | 50WV | |
| C3-6 | | | C90-5684-05 | NP-ELECT | 0.22UF | 50WV | |
| C3-6 | | | C90-6735-05 | NP-ELECT | 0.22UF | 50WV | |
| C51 | | | C90-5683-05 | ELECTRO | 3300UF | 16WV | M2E3 |
| C51 | | | C90-6746-05 | ELECTRO | 3300UF | 16WV | E1E2 |
| C52,53 | | | CK73GB1H102K | CHIP C | 1000PF | K | |
| C54,55 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C69 | | | CK73GB1A474K | CHIP C | 0.47UF | K | |
| C71 | | | CD04AS1C470M | ELECTRO | 47UF | 16WV | |
| C72 | | | CD04AS1E100M | ELECTRO | 10UF | 25WV | E1E2E3 |
| C72,73 | | | CD04AS1E100M | ELECTRO | 10UF | 25WV | M2 |
| C74,75 | | | CD04AS1C100M | ELECTRO | 10UF | 16WV | |
| C76 | | | CD04BH1A100M | ELECTRO | 10UF | 10WV | |
| C77 | | | CD04AT1H100M | ELECTRO | 10UF | 50WV | |
| C78 | | | CD04BF1C221M | ELECTRO | 220UF | 16WV | |
| C79 | | | CD04AS1C100M | ELECTRO | 10UF | 16WV | |
| C80 | | | CD04BF1C221M | ELECTRO | 220UF | 16WV | |
| C81,82 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C91,92 | | | CD04BF1E101M | ELECTRO | 100UF | 25WV | |
| C93 | | | CD04BF1C221M | ELECTRO | 220UF | 16WV | |
| C95 | | | CK73GB1A224K | CHIP C | 0.22UF | K | |
| C96 | | | CD04AS1HR47M | ELECTRO | 0.47UF | 50WV | |
| C97 | | | CD04BF1C220M | ELECTRO | 22UF | 16WV | |
| C112,113 | | | CC73GCH1H100D | CHIP C | 10PF | D | E1E2 |
| C116 | | | CC73GCH1H331J | CHIP C | 330PF | J | E1E2 |
| C117 | | | CD04AS1H2R2M | ELECTRO | 2.2UF | 50WV | E1E2 |
| C118 | | | CK73GB1H103K | CHIP C | 0.010UF | K | E1E2 |
| C119 | | | CD04AS1C100M | ELECTRO | 10UF | 16WV | E1E2 |
| C151 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C153 | | | CK73GB0J105K | CHIP C | 1.0UF | K | |
| C201 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C255 | | | CD04AS1A330M | ELECTRO | 33UF | 10WV | M2E1E2 |

**E1** : KDC-W5031 **E2** : KDC-W5031Y **E3** : KDC-W531Y **M2** : KDC-MP5029
(**E** : Europe **K** : North America **M** : Other Areas **W** : Without Europe)

⚠ Indicates safety critical components.

# PARTS LIST

## ELECTRIC UNIT (X34-339x-xx)

| Ref. No. | Add | New | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| C255 | | | CD04AS1C100M | ELECTRO | 10UF | 16WV | E3 |
| C256 | | | CD04AS1H010M | ELECTRO | 1UF | 50WV | |
| C257 | | | C90-5663-05 | ELECTRO | 1UF | 50WV | |
| C258 | | | CD04AS1H010M | ELECTRO | 1UF | 50WV | |
| C301,302 | | | CK73FB1C474K | CHIP C | 0.47UF | K | M2E1E2 |
| C303 | | | CD04AT1A470M | ELECTRO | 47UF | 10WV | M2E1E2 |
| C331,332 | | | CD04AT1C100M | ELECTRO | 10UF | 16WV | |
| C333,334 | | | CC73GCH1H681J | CHIP C | 680PF | J | E1E2E3 |
| C407 | | | CC73GCH1H220J | CHIP C | 22PF | J | |
| C408 | | | CC73GCH1H180J | CHIP C | 18PF | J | |
| C409 | | | CD04AS0J470M | ELECTRO | 47UF | 6.3WV | |
| C410 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C411 | | | CK73GB1A224K | CHIP C | 0.22UF | K | |
| C420 | | | CC73GCH1H102J | CHIP C | 1000PF | J | |
| C422 | | | CC73GCH1H101J | CHIP C | 100PF | J | |
| C502 | | | CK73GB1H152K | CHIP C | 1500PF | K | |
| C503 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C504 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C505 | | | CD04AT1C4R7M | ELECTRO | 4.7UF | 16WV | |
| C506 | | | CK73GB1A684K | CHIP C | 0.68UF | K | |
| C507,508 | | | CD04AT1A220M | ELECTRO | 22UF | 10WV | |
| C509 | | | CC73GCH1H680J | CHIP C | 68PF | J | |
| C510 | | | CC73GCH1H101J | CHIP C | 100PF | J | |
| C511 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C512 | | | CD04AT1C100M | ELECTRO | 10UF | 16WV | |
| C513,514 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C515 | | | CD04AT1H010M | ELECTRO | 1UF | 50WV | |
| C516 | | | CC73GCH1H100D | CHIP C | 10PF | D | |
| C517,518 | | | CK73GB1A105K | CHIP C | 1.0UF | K | |
| C519,520 | | | CK73GB1A474K | CHIP C | 0.47UF | K | |
| C521,522 | | | CC73GCH1H102J | CHIP C | 1000PF | J | |
| C524 | | | CC73GCH1H180J | CHIP C | 18PF | J | |
| C525 | | | CC73GCH1H150J | CHIP C | 15PF | J | |
| C527 | | | CC73GCH1H102J | CHIP C | 1000PF | J | |
| C531 | | | CK73GB1A105K | CHIP C | 1.0UF | K | |
| C541 | | | CC73GCH1H271J | CHIP C | 270PF | J | |
| C542 | | | CC73GCH1H050C | CHIP C | 5.0PF | C | |
| C543 | | | CC73GCH1H080D | CHIP C | 8.0PF | D | |
| C544 | | | CC73GCH1H150J | CHIP C | 15PF | J | |
| C545 | | | CK73GB1H682K | CHIP C | 6800PF | K | |
| C547 | | | CD04AT1A220M | ELECTRO | 22UF | 10WV | |
| C548 | | | CK73GB1E223K | CHIP C | 0.022UF | K | |
| C548 | | | CK73GB1H223K | CHIP C | 0.022UF | K | |
| C549 | | | CK73GB1H222K | CHIP C | 2200PF | K | |
| C550 | | | CK73GB1E333K | CHIP C | 0.033UF | K | |
| C550 | | | CK73GB1H333K | CHIP C | 0.033UF | K | |
| C551 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C552 | | | CK73GB1H222K | CHIP C | 2200PF | K | |
| C553 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C554 | | | CK73GB1A334K | CHIP C | 0.33UF | K | |
| C556 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C559 | | | CK73GB1H332K | CHIP C | 3300PF | K | |
| C561 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C562 | | | CD04AT1A100M | ELECTRO | 10UF | 10WV | |
| C563 | | | CD04AT1HR47M | ELECTRO | 0.47UF | 50WV | |

| Ref. No. | Add | New | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| C564 | | | CK73GB1A474K | CHIP C | 0.47UF | K | |
| C565 | | | CK73FB1C105K | CHIP C | 1.0UF | K | |
| C568 | | | CC73GCH1H271J | CHIP C | 270PF | J | |
| C579 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C580 | | | CC73GCH1H470J | CHIP C | 47PF | J | |
| C581 | | | CC73GCH1H101J | CHIP C | 100PF | J | |
| C582 | | | CK73GB1E223K | CHIP C | 0.022UF | K | |
| C582 | | | CK73GB1H223K | CHIP C | 0.022UF | K | |
| C583 | | | CK73GB1C683K | CHIP C | 0.068UF | K | |
| C583 | | | CK73GB1H683K | CHIP C | 0.068UF | K | |
| C584,585 | | | CK73GB1A105K | CHIP C | 1.0UF | K | |
| C586 | | | CK73GB0J105K | CHIP C | 1.0UF | K | |
| C587 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C588 | | | CK73GB1A474K | CHIP C | 0.47UF | K | |
| C589 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C590 | | | CK73GB1H392K | CHIP C | 3900PF | K | |
| C600 | | | CD04AT1A101M | ELECTRO | 100UF | 10WV | |
| C601 | | | CK73GB1E223K | CHIP C | 0.022UF | K | |
| C601 | | | CK73GB1H223K | CHIP C | 0.022UF | K | |
| C602 | | | CC73GCH1H151J | CHIP C | 150PF | J | |
| C603 | | | CC73GCH1H030C | CHIP C | 3.0PF | C | |
| C604 | | | CC73GCH1H470J | CHIP C | 47PF | J | |
| C605,606 | | | CC73GCH1H010C | CHIP C | 1.0PF | C | |
| C610 | | | CC73GCH1H010C | CHIP C | 1.0PF | C | |
| C620 | | | CK73GB1A105K | CHIP C | 1.0UF | K | |
| C623,624 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C625-627 | | | CC73GCH1H101J | CHIP C | 100PF | J | |
| C628 | | | CK73GB1A105K | CHIP C | 1.0UF | K | |
| C632 | | | CK73GB1H102K | CHIP C | 1000PF | K | |
| CN2 | | | E41-2244-05 | FLAT CABLE CONNECTOR | | | |
| ⚠ J1 | | | E58-0991-05 | RECTANGULAR RECEPTACLE | | | |
| J2 | | | E56-0855-05 | CYLINDRICAL RECEPTACLE | | | M2E1E2 |
| J4 | | | E04-0326-05 | RF COAXIAL CABLE RECEPTACLE | | | |
| J5 | | | E58-0992-05 | RECTANGULAR RECEPTACLE | | | |
| J6 | | | E63-0898-05 | PIN JACK | | | |
| WH1 | | | E39-0717-05 | WIRING HARNESS | | | M2E1E2 |
| CF51-53 | | | L72-0805-05 | CERAMIC FILTER | | | |
| CF54 | | | L72-0804-05 | CERAMIC FILTER | | | |
| L4 | | | L33-2260-05 | CHOKE COIL | | | |
| L51 | | | L33-1988-05 | CHOKE COIL ASSY (140UH) | | | |
| L61 | | | L40-4795-91 | SMALL FIXED INDUCTOR (4.7UH) | | | |
| L62 | | | L33-1925-05 | CHOKE COIL (220UH) | | | |
| L101 | | | L40-4795-91 | SMALL FIXED INDUCTOR (4.7UH) | | | E1E2 |
| L301 | | | L92-0337-05 | CHIP FERRITE | | | M2E1E2 |
| L501 | | | L40-6891-58 | SMALL FIXED INDUCTOR (6.8UH) | | | |
| L502 | | | L40-3301-58 | SMALL FIXED INDUCTOR (33UH) | | | |
| L503 | | | L40-1021-56 | SMALL FIXED INDUCTOR (1000UH) | | | |
| L504 | | | L40-1011-58 | SMALL FIXED INDUCTOR (100UH) | | | |
| L505 | | | L40-3381-58 | SMALL FIXED INDUCTOR (0.33UH) | | | |
| L506 | | | L31-0977-15 | FM-RF COIL | | | |
| L507 | | | L32-0941-15 | FM OSCILLATING COIL | | | |
| L508 | | | L30-0776-15 | FM IFT | | | |
| L509 | | | L30-0777-15 | AM IFT | | | |
| L518 | | | L31-0976-15 | FM-RF COIL | | | |

**E1** : KDC-W5031 **E2** : KDC-W5031Y **E3** : KDC-W531Y **M2** : KDC-MP5029
(**E** : Europe **K** : North America **M** : Other Areas **W** : Without Europe)

⚠ Indicates safety critical components.

# PARTS LIST

## ELECTRIC UNIT (X34-339x-xx)

| Ref. No. | Add | New | Parts No. | Description | | | | Destination |
|---|---|---|---|---|---|---|---|---|
| L520 | | | L40-3381-58 | SMALL FIXED INDUCTOR (0.33UH) | | | | |
| L521 | | | L40-1073-72 | SMALL FIXED INDUCTOR (10NH) | | | | |
| L600 | | | L92-0607-05 | CHIP FERRITE | | | | |
| L601,602 | | | L92-0397-05 | CHIP FERRITE | | | | |
| L604,605 | | | L92-0609-05 | CHIP FERRITE | | | | |
| X1 | | | L78-0879-05 | RESONATOR (10.0MHZ) | | | | |
| X2 | | | L77-2793-05 | CRYSTAL RESONATOR (32.768KHZ) | | | | |
| X3 | | | L77-2002-05 | CRYSTAL RESONATOR (4.332MHZ) | | | | E1E2 |
| X501 | | | L77-2077-05 | CRYSTAL RESONATOR (10.250MHZ) | | | | |
| G | 2D | | N80-3010-48 | PAN HEAD TAPTITE SCREW | | | | |
| J | 2D | | N83-3005-48 | PAN HEAD TAPTITE SCREW | | | | |
| K | 2D | | N83-3020-48 | PAN HEAD TAPTITE SCREW | | | | |
| M | 3D | | N86-2606-48 | BINDING HEAD TAPTITE SCREW | | | | |
| R1,2 | | | RK73GB2A101J | CHIP R | 100 | J | 1/10W | |
| R21 | | | RD14BB2C152J | RD | 1.5K | J | 1/6W | |
| R51 | | | RK73FB2B683J | CHIP R | 68K | J | 1/8W | |
| R52 | | | RK73GB2A393J | CHIP R | 39K | J | 1/10W | |
| R53 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R54 | | | RK73FB2B203J | CHIP R | 20K | J | 1/8W | |
| R55,56 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R57 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | |
| R58 | | | RD14DB2H332J | SMALL-RD | 3.3K | J | 1/2W | |
| R59 | | | RD14BB2C333J | RD | 33K | J | 1/6W | |
| R60 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R61 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | |
| R62 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R63 | | | RK73GB2A562J | CHIP R | 5.6K | J | 1/10W | |
| R72,73 | | | RD14BB2C472J | RD | 4.7K | J | 1/6W | |
| R75-78 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R81 | | | RD14BB2C103J | RD | 10K | J | 1/6W | |
| R82 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | |
| R83 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R84-88 | | | RK73GB2A1R0J | CHIP R | 1.0 | J | 1/10W | E1E2E3 |
| R84-90 | | | RK73GB2A1R0J | CHIP R | 1.0 | J | 1/10W | M2 |
| R90 | | | RK73GB2A1R0J | CHIP R | 1.0 | J | 1/10W | E1E2E3 |
| R91-94 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R96 | | | RK73GH2A273D | CHIP R | 27K | D | 1/10W | |
| R97 | | | RK73GH2A332D | CHIP R | 3.3K | D | 1/10W | |
| R98 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R100 | | | RK73GB2A272J | CHIP R | 2.7K | J | 1/10W | |
| R112-114 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | E1E2 |
| R130-141 | | | RK73EB2E2R2J | CHIP R | 2.2 | J | 1/4W | |
| R151 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R152 | | | RK73EB2E100J | CHIP R | 10 | J | 1/4W | |
| R153 | | | RK73EB2E471J | CHIP R | 470 | J | 1/4W | |
| R156,157 | | | RK73EB2E102J | CHIP R | 1.0K | J | 1/4W | |
| R158 | | | RK73EB2E101J | CHIP R | 100 | J | 1/4W | |
| R159 | | | RK73EB2E102J | CHIP R | 1.0K | J | 1/4W | |
| R160,161 | | | RK73EB2E471J | CHIP R | 470 | J | 1/4W | |
| R162 | | | RK73EB2E102J | CHIP R | 1.0K | J | 1/4W | M2E1E2 |
| R163 | | | RK73EB2E471J | CHIP R | 470 | J | 1/4W | |
| R164 | | | RK73EB2E102J | CHIP R | 1.0K | J | 1/4W | |
| R172 | | | RK73EB2E102J | CHIP R | 1.0K | J | 1/4W | E1E2 |
| R178 | | | RK73GB2A471J | CHIP R | 470 | J | 1/10W | |

| Ref. No. | Add | New | Parts No. | Description | | | | Destination |
|---|---|---|---|---|---|---|---|---|
| R180-182 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R183,184 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R185 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R186 | | | RK73GB2A241J | CHIP R | 240 | J | 1/10W | |
| R190 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R191 | | | RK73GB2A225J | CHIP R | 2.2M | J | 1/10W | |
| R193,194 | | | RK73GB2A474J | CHIP R | 470K | J | 1/10W | |
| R195 | | | RK73GB2A152J | CHIP R | 1.5K | J | 1/10W | |
| R196 | | | RK73GB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R197 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R198 | | | RK73GB2A474J | CHIP R | 470K | J | 1/10W | |
| R251 | | | RK73GB2A154J | CHIP R | 150K | J | 1/10W | E3 |
| R251 | | | RK73GB2A333J | CHIP R | 33K | J | 1/10W | M2E1E2 |
| R252 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R253 | | | RK73GB2A432J | CHIP R | 4.3K | J | 1/10W | |
| R254 | | | RK73GB2A100J | CHIP R | 10 | J | 1/10W | |
| R255 | | | RK73GB2A221J | CHIP R | 220 | J | 1/10W | M2E1E2 |
| R255 | | | RK73GB2A331J | CHIP R | 330 | J | 1/10W | E3 |
| R256 | | | RK73GB2A154J | CHIP R | 150K | J | 1/10W | E3 |
| R256 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | M2E1E2 |
| R257 | | | RK73GB2A123J | CHIP R | 12K | J | 1/10W | E3 |
| R257 | | | RK73GB2A303J | CHIP R | 30K | J | 1/10W | M2E1E2 |
| R271 | | | RK73GB2A101J | CHIP R | 100 | J | 1/10W | |
| R272 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R273 | | | RK73GB2A474J | CHIP R | 470K | J | 1/10W | |
| R301,302 | | | RK73EB2E100J | CHIP R | 10 | J | 1/4W | M2E1E2 |
| R303 | | | RK73EB2E101J | CHIP R | 100 | J | 1/4W | M2E1E2 |
| R304,305 | | | RK73EB2E472J | CHIP R | 4.7K | J | 1/4W | M2E1E2 |
| R306 | | | RK73EB2E4R7J | CHIP R | 4.7 | J | 1/4W | M2E1E2 |
| R307-309 | | | RK73EB2E472J | CHIP R | 4.7K | J | 1/4W | M2E1E2 |
| R310,311 | | | RK73EB2E101J | CHIP R | 100 | J | 1/4W | M2E1E2 |
| R312 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | M2E1E2 |
| R313 | | | RD14BB2C104J | RD | 100K | J | 1/6W | M2E1E2 |
| R331,332 | | | RK73GB2A271J | CHIP R | 270 | J | 1/10W | |
| R335,336 | | | RK73GB2A303J | CHIP R | 30K | J | 1/10W | |
| R338,339 | | | RD14BB2C101J | RD | 100 | J | 1/6W | |
| R351,352 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R353 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R355,356 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R358 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R359 | | | RK73GB2A101J | CHIP R | 100 | J | 1/10W | |
| R360 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R363 | | | RK73GB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R365 | | | RK73GB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R366 | | | RK73EB2E472J | CHIP R | 4.7K | J | 1/4W | |
| R367 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R368,369 | | | RK73GB2A471J | CHIP R | 470 | J | 1/10W | |
| R370,371 | | | RK73GB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R411 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | M2 |
| R412,413 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | E1E2E3 |
| R414,415 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | M2 |
| R415 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | E1E2 |
| R416-418 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | E3 |
| R417,418 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | M2E1E2 |
| R431 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | E1E2 |

**E1** : KDC-W5031 **E2** : KDC-W5031Y **E3** : KDC-W531Y **M2** : KDC-MP5029
(**E** : Europe **K** : North America **M** : Other Areas **W** : Without Europe)

⚠ Indicates safety critical components.

# PARTS LIST

## ELECTRIC UNIT (X34-339x-xx)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| R432 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R433 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R435,436 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R437,438 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R439 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R440,441 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R453 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R454 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R456 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R457 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R470 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | E1E2 |
| R471 | | | RK73GB2A103J | CHIP R 10K J 1/10W | M2E3 |
| R480 | | | RK73GB2A104J | CHIP R 100K J 1/10W | M2E1E2 |
| R501 | | | RK73GB2A682J | CHIP R 6.8K J 1/10W | |
| R502,503 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R504 | | | RK73GB2A4R7J | CHIP R 4.7 J 1/10W | |
| R505 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R506 | | | RK73GB2A105J | CHIP R 1.0M J 1/10W | |
| R507 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R520 | | | RK73GB2A221J | CHIP R 220 J 1/10W | |
| R521 | | | RK73GB2A152J | CHIP R 1.5K J 1/10W | |
| R522 | | | RK73GB2A223J | CHIP R 22K J 1/10W | |
| R523 | | | RK73GB2A100J | CHIP R 10 J 1/10W | |
| R543 | | | RK73GB2A562J | CHIP R 5.6K J 1/10W | |
| R544 | | | RD14BB2C222J | RD 2.2K J 1/6W | |
| R545 | | | RK73GB2A333J | CHIP R 33K J 1/10W | |
| R546 | | | RK73GB2A432J | CHIP R 4.3K J 1/10W | |
| R561 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R562 | | | RK73GB2A106J | CHIP R 10M J 1/10W | |
| R565 | | | RK73GB2A394J | CHIP R 390K J 1/10W | |
| R566,567 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R589 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R590 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R591 | | | RK73GB2A513J | CHIP R 51K J 1/10W | |
| R592 | | | RK73GB2A223J | CHIP R 22K J 1/10W | |
| R594 | | | RK73EB2E100J | CHIP R 10 J 1/4W | |
| R596-598 | | | RD14BB2C100J | RD 10 J 1/6W | |
| R599 | | | RK73GB2A220J | CHIP R 22 J 1/10W | |
| R600 | | | RD14BB2C2R2J | RD 2.2 J 1/6W | |
| R601 | | | RD14BB2C1R0J | RD 1.0 J 1/6W | |
| R602 | | | RK73GB2A122J | CHIP R 1.2K J 1/10W | |
| R603 | | | RK73GB2A560J | CHIP R 56 J 1/10W | |
| R605,606 | | | RK73GB2A100J | CHIP R 10 J 1/10W | |
| W51 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | E1E2E3 |
| W52 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W53 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W54 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W56 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | M2E3 |
| W56,57 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | E1E2 |
| W58-60 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W62,63 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W64 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W65,66 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W70,71 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | E1E2 |
| W71 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | M2E3 |

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| W72 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W73 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W75 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W76 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W78 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W79 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W82 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W83 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W91 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W93 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W96,97 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W98 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W99,100 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W102,103 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W252 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | M2E1E2 |
| W506 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W604,605 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W611 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W802 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W803 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W804-807 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W808 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W810 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W812 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W814 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W820 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W823 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W826,827 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W831 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| W832 | | | R92-2053-05 | CHIP R 0 OHM J 1/8W | |
| W838 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| S151 | | ✻ | S74-0822-05 | MICRO SWITCH | |
| S152 | | ✻ | S70-0931-05 | TACT SWITCH | |
| D3 | | | IMSA-6801-E | SURGE ABSORBER | |
| D52 | | | MAZ4068N-M | ZENER DIODE | |
| D53 | | | UDZS6.8B | ZENER DIODE | |
| D53 | | | 02DZ6.8F-Y | ZENER DIODE | |
| D54 | | | MAZ4068N-M | ZENER DIODE | |
| D55 | | | 1SS355 | DIODE | |
| D57 | | | S2V60✻A | DIODE | |
| D71 | | | MAZ4082N-L | ZENER DIODE | |
| D72 | | | D1F60-5063 | DIODE | |
| D72 | | | 1SR154-400 | DIODE | |
| D73 | | | AM01ZNF | DIODE | |
| D73 | | | 10EDA20 | DIODE | |
| D74,75 | | | D1F60-5063 | DIODE | |
| D74,75 | | | 1SR154-400 | DIODE | |
| D76 | | | DAN202U | DIODE | |
| D76 | | | KDS121-P | DIODE | |
| D76 | | | MC2848 | DIODE | |
| D81 | | | UDZS4.7B | ZENER DIODE | |
| D81 | | | 02DZ4.7F-Y | ZENER DIODE | |
| D91 | | | SFPB-54VNF | DIODE | |

**E1** : KDC-W5031 **E2** : KDC-W5031Y **E3** : KDC-W531Y **M2** : KDC-MP5029
(**E** : Europe **K** : North America **M** : Other Areas **W** : Without Europe)

⚠ Indicates safety critical components.

# PARTS LIST

## ELECTRIC UNIT (X34-339x-xx)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| D162 | | | STZ6.2N | ZENER DIODE | M2E1E2 |
| D203 | | | 1SS133 | DIODE | |
| D251-253 | | | D1F60-5063 | DIODE | M2E1E2 |
| D251-253 | | | 1SR154-400 | DIODE | M2E1E2 |
| D254 | | | AM01ZNF | DIODE | M2E1E2 |
| D254 | | | 10EDA20 | DIODE | M2E1E2 |
| D255-258 | | | D1F60-5063 | DIODE | M2E1E2 |
| D255-258 | | | 1SR154-400 | DIODE | M2E1E2 |
| D259 | | | 1SS133 | DIODE | E3 |
| D259,260 | | | 1SS133 | DIODE | M2E1E2 |
| D261 | | | 1SS355 | DIODE | |
| D301-304 | | | MAZ4062-L | ZENER DIODE | M2E1E2 |
| D305,306 | | | MAZ4068N-M | ZENER DIODE | M2E1E2 |
| D402,403 | | | DAN202U | DIODE | |
| D402,403 | | | KDS121-P | DIODE | |
| D402,403 | | | MC2848 | DIODE | |
| D501 | | | RN739F | DIODE | |
| D502,503 | | | KP2311ETR-G | DIODE | |
| D504 | | | KV1430STL-G | VARIABLE CAPACITANCE DIODE | |
| D506 | | | HVC383B-E | VARIABLE CAPACITANCE DIODE | |
| IC1 | | | 784225GC254A | MICROCONTROLLER IC | |
| IC3 | | | BA4911-V4 | ANALOGUE IC | |
| IC4 | | | E-TDA7560A | ANALOGUE IC | M2E1E2 |
| IC4 | | | TB2904HQ | ANALOGUE IC | E3 |
| IC6 | | | TC7W02FU-F | MOS-IC | |
| IC7 | | | E-TDA7479AD | ANALOGUE IC | E1E2 |
| IC8 | | | S-80836CNNB-J | MOS-IC | |
| IC9 | | | SI-8050JF3NF | ANALOGUE IC | |
| IC10 | | | E-TDA7516 | ANALOGUE IC | |
| IC11 | | | BR24L04FV-W | ROM IC | |
| IC15 | | | BA00CCWT | ANALOGUE IC | |
| Q51-53 | | | 2SC4081 | TRANSISTOR | |
| Q54 | | | 2SA1036K | TRANSISTOR | |
| Q71 | | | UMC2N | DIGITAL TRANSISTOR | |
| Q72 | | | 2SB1565 (E, F) | TRANSISTOR | |
| Q73 | | | 2SD1858 | TRANSISTOR | |
| Q74 | | | UMC2N | DIGITAL TRANSISTOR | |
| Q91 | | | 2SC4081 | TRANSISTOR | |
| Q151 | | | DTA114YUA | DIGITAL TRANSISTOR | |
| Q151 | | | KRA307-P | DIGITAL TRANSISTOR | |
| Q151 | | | RT1P144M | DIGITAL TRANSISTOR | |
| Q152 | | | 2SA1577 | TRANSISTOR | |
| Q153 | | | DTC114YUA | DIGITAL TRANSISTOR | |
| Q153 | | | KRC407-P | DIGITAL TRANSISTOR | |
| Q153 | | | RT1N144M | DIGITAL TRANSISTOR | |
| Q156 | | | 2SC4081 | TRANSISTOR | |
| Q252 | | | KTA2014P (Y, GR) | TRANSISTOR | |
| Q252 | | | 2SA1576A | TRANSISTOR | |
| Q252 | | | 2SA1603A | TRANSISTOR | |
| Q330 | | | DTA124EUA | DIGITAL TRANSISTOR | |
| Q330 | | | KRA303-P | DIGITAL TRANSISTOR | |
| Q330 | | | RT1P241M | DIGITAL TRANSISTOR | |
| Q351,352 | | | DTC143TUA | DIGITAL TRANSISTOR | |
| Q351,352 | | | KRC410-P | DIGITAL TRANSISTOR | |
| Q351,352 | | | RT1N430M | DIGITAL TRANSISTOR | |
| Q501 | | | HN3G01J (BL)-F | TRANSISTOR | |
| TH1 | | | PRF21BE471QB2 | POSITIVE RESISTOR | |

## DAUGHTER UNIT (X89-2690-10)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| C221,222 | | | CD04AS1C100M | ELECTRO 10UF 16WV | M2E1E2 |
| CN90 | | | E41-0956-05 | PIN ASSY | M2E1E2 |
| CN91 | | | E41-0930-05 | PIN ASSY | M2E1E2 |
| W101 | | | E31-0001-00 | JUMPER WIRE | M2E1E2 |
| R221,222 | | | RK73GB2A271J | CHIP R 270 J 1/10W | M2E1E2 |
| R225,226 | | | RK73GB2A303J | CHIP R 30K J 1/10W | M2E1E2 |
| R229,230 | | | RD14BB2C101J | RD 100 J 1/6W | M2E1E2 |
| Q221,222 | | | DTC143TUA | DIGITAL TRANSISTOR | M2E1E2 |
| Q221,222 | | | KRC410-P | DIGITAL TRANSISTOR | M2E1E2 |
| Q221,222 | | | RT1N430M | TRANSISTOR | M2E1E2 |
| Q225 | | | DTA124EUA | DIGITAL TRANSISTOR | M2E1E2 |
| Q225 | | | KRA303-P | DIGITAL TRANSISTOR | M2E1E2 |
| Q225 | | | RT1P241M | TRANSISTOR | M2E1E2 |

## MECHANISM UNIT (X92-4850-00)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| 2 | 1B | | A10-4827-32 | CHASSIS | |
| 5 | 1B | | D10-4576-83 | ARM ASSY | |
| 8 | 2A | | D10-4579-23 | LEVER ASSY | |
| 10 | 2A | | D10-4581-13 | ARM | |
| 11 | 2A | | D10-4582-13 | ARM | |
| 12 | 3A | | D10-4583-03 | ARM | |
| 13 | 3A | | D10-4584-03 | ARM | |
| 14 | 3B | | D10-4585-03 | ARM | |
| 15 | 2A | | D10-4586-13 | SLIDER | |
| 16 | 3B | | D10-4587-52 | SLIDER | |
| 17 | 2B | | D10-4588-13 | SLIDER | |
| 18 | 2B | | D10-4595-04 | ARM | |
| 19 | 2B | | D10-4596-24 | ARM | |
| 22 | 2A | | D13-2151-04 | GEAR | |
| 23 | 2B | | D13-2152-04 | GEAR | |
| 24 | 3B | | D13-2153-04 | GEAR | |
| 25 | 3B | | D13-2154-04 | GEAR | |
| 26 | 3B | | D13-2155-04 | WORM | |
| 27 | 2B | | D13-2156-14 | GEAR | |
| 28 | 3B | | D13-2157-04 | GEAR | |
| 29 | 2B | | D13-2158-04 | GEAR | |
| 30 | 2B | | D13-2168-04 | GEAR | |
| 31 | 3B | | D13-2171-04 | GEAR | |
| 32 | 1B | | D13-2172-13 | RACK (GEAR) | |
| 33 | 2A | | D14-0759-04 | ROLLER | |
| 35 | 2B | | D21-2382-04 | SHAFT | |
| 36 | 1A | | D23-0954-04 | RETAINER | |
| 37 | 1B | | D39-0246-05 | DAMPER | |
| 38 | 2B | | G01-3072-04 | EXTENSION SPRING | |
| 39 | 2A | | G01-3073-04 | TORSION COIL SPRING | |
| 40 | 2A | | G01-3074-04 | EXTENSION SPRING | |
| 41 | 1B | | G01-3075-14 | EXTENSION SPRING | |
| 42 | 2A | | G01-3076-04 | EXTENSION SPRING | |
| 43 | 1B | | G01-3077-14 | EXTENSION SPRING | |

**E1** : KDC-W5031 **E2** : KDC-W5031Y **E3** : KDC-W531Y **M2** : KDC-MP5029
(**E** : Europe **K** : North America **M** : Other Areas **W** : Without Europe)

⚠ Indicates safety critical components.

# PARTS LIST

## MECHANISM UNIT (X92-4850-00)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| 44 | 2B | | G02-1399-04 | FLAT SPRING | |
| 45 | 2B | | G02-1408-04 | FLAT SPRING | |
| | | | | | |
| 51 | 1A | | J21-9676-32 | MOUNTING HARDWARE | |
| 52 | 3B | | J21-9677-22 | MOUNTING HARDWARE | |
| 53 | 1B | | J21-9678-13 | MOUNTING HARDWARE | |
| 55 | 1A | | J90-1001-11 | GUIDE | |
| 56 | 1B | | J90-1023-03 | GUIDE | |
| | | | | | |
| DFPC1 | 3A | | J84-0141-05 | FLEXIBLE PRINTED WIRING BOARD | |
| | | | | | |
| A | 2B | | N09-4460-05 | TAPTITE SCREW (OVAL P TAPTIT) | |
| B | 1B | | N09-4472-15 | MACHINE SCREW (M1.7X8.0) | |
| C | 2B | | N09-6004-05 | MACHINE SCREW (M1.7X2.5 IB-L) | |
| E | 2B | | N09-6007-05 | MACHINE SCREW (PAN M2X2) | |
| F | 1A | | N09-6051-05 | TAPTITE SCREW (BIND P 2X5) | |
| | | | | | |
| G | 2A | | N19-2163-04 | FLAT WASHER | |
| H | 1B | | N39-2020-46 | PAN HEAD MACHINE SCREW | |
| J | 1B | | N09-6108-05 | MACHINE SCREW (M2*3.5) | |
| K | 3B | | N09-6155-05 | SEMS (TAPTITE SCREW) (PT2X6) | |
| | | | | | |
| DM1 | 3B | | T42-1066-04 | DC MOTOR (SPINDLE) | |
| DM2 | 2B | | T42-1067-04 | DC MOTOR (LOADING) | |
| | | | | | |
| DPU1 | 2B | | X93-2010-00 | OPTICAL PICKUP ASSY | |

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|

**E1** : KDC-W5031 **E2** : KDC-W5031Y **E3** : KDC-W531Y **M2** : KDC-MP5029
(**E** : Europe **K** : North America **M** : Other Areas **W** : Without Europe)

⚠ Indicates safety critical components.

# SPECIFICATIONS

## KDC-MP5029

**FM**

Frequency Range (Frequency Step)
..... 87.5MHz~108.0MHz (50kHz)
..... 87.9MHz~107.9MHz (200kHz)
Channel Space Selection ..... 50kHz/200kHz
Usable Sensitivity (S/N : 30dB) ..... 9.3dBf (0.8µV/75Ω)
Quieting Sensitivity (S/N : 50dB) ..... 15.2dBf (1.6µV/75Ω)
Frequency Response (±3.0dB) ..... 30Hz~15kHz
S/N ..... 70dB (MONO)
Selectivity ..... ≧80dB (±400kHz)
Stereo Separation ..... 40dB (1kHz)

**AM (MW)**

Frequency Range (Frequency Step) .... 531kHz~1611kHz (9kHz)
..... 530kHz~1700kHz (10kHz)
Channel Space Selection ..... 9kHz/10kHz
Usable Sensitivity (S/N : 20dB) ..... 28dBµV (25µV)

**CD**

Laser Diode ..... GaAlAs
Digital Filter (D/A) ..... 8 Times Over Sampling
D/A Converter ..... 1 Bit
Spindle Speed ..... 200rpm~500rpm (CLV)
Wow & Flutter ..... Below Mesurable Limit
Frequency Response ..... 10Hz~20kHz (±1dB)
Total Harmonic Distortion ..... 0.01% (1kHz)
S/N Ratio ..... 105dB (1kHz)
Dynamic Range ..... 93dB
Channel Separation ..... 96dB
MP3 Decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA Decode ..... Compliant with WINDOWS MEDIA AUDIO
Preout Level / Load ..... 2000mV/10kΩ (CD/CD-CH)
Preout Impedance ..... ≦600Ω

**Amplifier**

Maximum Power ..... 50W x 4
Full Bandwidth Power (at less than 1% THD) ..... 22W x 4

**Tone**

Bass ..... 100Hz±10dB
Middle ..... 1kHz±10dB
Treble ..... 10kHz±10dB

**General**

Operating Voltage (11V~16V allowable) ..... 14.4V
Current Consumption ..... 10A
Installation Size (Width) ..... 182mm
(Height) ..... 53mm
(Depth) ..... 155mm
Weight ..... 1.20kg (2.64lbs)

## KDC-W5031/W5031Y/W531Y

**FM**

Frequency Range (Frequency Step)
..... 87.5MHz~108.0MHz (50kHz)
Usable Sensitivity (S/N : 26dB) ..... 0.7µV/75Ω
Quieting Sensitivity (S/N : 46dB) ..... 1.6µV/75Ω
Frequency Response (±3.0dB) ..... 30Hz~15kHz
S/N ..... 65dB (MONO)
Selectivity ..... ≧80dB (±400kHz)
Stereo Separation ..... 35dB (1kHz)

**AM (MW)**

Frequency Range (Frequency Step) .... 531kHz~1611kHz (9kHz)
Usable Sensitivity (S/N : 20dB) ..... 25µV

**LW**

Frequency Range ..... 153kHz~281kHz
Usable Sensitivity (S/N : 20dB) ..... 45µV

**CD**

Laser Diode ..... GaAlAs
Digital Filter (D/A) ..... 8 Times Over Sampling
D/A Converter ..... 1 Bit
Spindle Speed ..... 200rpm~500rpm (CLV)
Wow & Flutter ..... Below Mesurable Limit
Frequency Response ..... 10Hz~20kHz (±1dB)
Total Harmonic Distortion ..... 0.01% (1kHz)
S/N Ratio ..... 105dB (1kHz)
Dynamic Range ..... 93dB
Channel Separation ..... 96dB
MP3 Decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA Decode ..... Compliant with WINDOWS MEDIA AUDIO
Preout Level / Load
KDC-W5031/W5031Y ..... 2000mV/10kΩ (CD/CD-CH)
KDC-W531Y ..... 2000mV/10kΩ (CD)
Preout Impedance ..... ≦600Ω

**Amplifier**

Maximum Power
KDC-W5031/W5031Y ..... 50W x 4
KDC-W531Y ..... 45W x 4
Power (DIN45324, +B=14.4V)
KDC-W5031/W5031Y ..... 30W x 4
KDC-W531Y ..... 28W x 4

**Tone**

Bass ..... 100Hz±10dB
Middle ..... 1kHz±10dB
Treble ..... 10kHz±10dB

**General**

Operating Voltage (11V~16V allowable) ..... 14.4V
Current Consumption ..... 10A
Installation Size (Width) ..... 182mm
(Height) ..... 53mm
(Depth) ..... 155mm
Weight ..... 1.20kg (2.64lbs)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.